DSS FILE NO.: 14SQ.23440-5-9149
SERIAL NO.: 0SQ85-00212

TITLE: HOMOGENEITY OF ZN/AL ALLOYS

FINAL REPORT
BY:

KIDD CREEK MINES LTD.

METALLURGICAL SITE

Work on the project was conducted under the auspices of the Canada Centre for Mineral and Energy Technology, Energy, Mines and Resources Canada.

DSS FILE NO.: 14SQ.23440-5-9149

DSS CONTRACT SERIAL NO.: 0SQ85-00212

CANMET PROJECT NO.: 306901 (REFERENCE MATERIALS)

CANMET SCIENTIFIC AUTHORITY: C.W. SMITH

DATE: 20 FEBRUARY 1986

55 pp

APR 23 1986

MICROMEDIA

HOMOGENEITY OF ZN/AL ALLOYS

by

KIDD CREEK MINES LTD., METALLURGICAL SITE

CONTENTS

SUMMARY

STATEMENT OF WORK

TECHNICAL PROPOSAL

Appendix - Equipment parameters
- Amendment authorization
- Amended disc numbers

RESULTS

Group 1 - (Alloy NZA-1)
Group 2 - (Alloy NZA-2)
Group 3 - (Alloy NZA-3)
Group 4 - (Alloy NZA-4)
Group 5 - (Alloy NZA-5)
Group 6 - (Alloy NZA-6)
Group 7 - (Alloy NZA-7)

HOMOGENEITY OF ZN/AL ALLOYS

by

KIDD CREEK MINES LTD., METALLURGICAL SITE

SUMMARY

Zinc/aluminum alloys NZA-1 to NZA-7 are candidate reference materials of the Canadian Certified Reference Materials Project. Concentrations of seven component elements of each alloy have been established through an interlaboratory measurement project employing chip form samples. The alloys are also provided in disc form, appropriate for use as emission spectrometry reference materials. To ascertain their suitability for this purpose, an extensive measurement project was carried out to assess the homogeneity of element concentrations amongst - and within - the discs.

The results of in excess of eleven thousand measurements by spark-source optical emission spectrometry carried out for homogeneity assessment at CANMET are presented herein.

14SQ.23440-5-9149
0SQ85-00212

STATEMENT OF WORK

BACKGROUND

The Canadian Certified Reference Materials Project (CCRMP) plans to certify a suite of seven Zn/Al alloys as reference materials for spectrometric and chemical analytical purposes. At present, the alloys are in disk form (2" diameter X ½" thickness). Several randomly-selected disks from each alloy have been reduced to chippings and analyzed for aluminium, iron, copper, magnesium, cadmium, tin and lead by 13 laboratories; recommended concentration values of these elements shall be calculated by statistical analysis. These values can be transferred to the disk specimens only if individual disks are internally chemically homogeneous and if there is no difference between the disks of an alloy. The aim of this contract is to confirm the within-disk and between-disks homogeneity for aluminum, tin, copper, magnesium and iron, if possible, by emission spectrometric analysis.

WORK STATEMENT

The alloys are encoded nXzzz where n = 1 to 7 and reflects the alloy number; X is A, B, C or D; and zzz is the disk number. For example, 3B076 is disk #76 of bar #B of alloy #3.

The contractor shall carry out the following tasks for each of the seven alloys. Figure 1 herein is for clarity.

1) Each disk shall be subjected to 10 "burns" by spark source emission spectrometry. These shall be performed to give five burns in each of two concentric circles lying within the ½" and 2" diameters of the disk. The order of these burns is indicated in the accompanying figure. A disk has no orientation until Burn #1 is executed.

   The order of disk counting and burn-position has been statistically designed and should be adhered to.

2) The disks shall be measured in the order given herein. Please note that one of the disks is a "bench-mark" specimen and shall be measured repeatedly. It is important that this disk be repolished between each 10-burn measurement sequences. Also it is important that any stoppage, for whatever cause, of the measurement procedure must be with this control disk. Similarly, any beginning must be with this control disk.

   There should be no normalization of the voltage data to any internal (to the disk being measured) line, nor should the spark time be so normalized, but instead should be precision controlled by the timer.

   For each of the seven alloys it is imperative that any stoppage and startage end and begin with the ten burns of the control disck (re-surfaced) for that alloy as indicated in the Work Statement. These measurements are in addition to those indicated herein, if the stoppages occur in the disk sequence for that alloy. (These data is used to handle any effects of variation in instrument response).

3) The data required is the instrumental reading (as output) for aluminum, tin, magnesium, copper and iron for each "burn". Their conversion to concentration units is not required. Estimated concentrations are reported herein, The suite of elements measured can be different if the instrument set-up requires it and CCRMP is agreeable.

4) Four (4) copies of the Final Report shall be submitted. This report shall include a hard-copy of the data together with a brief description of the instrument and of any special procedures for carrying out this task. The Final Report shall contain an executive summary in both English and French.

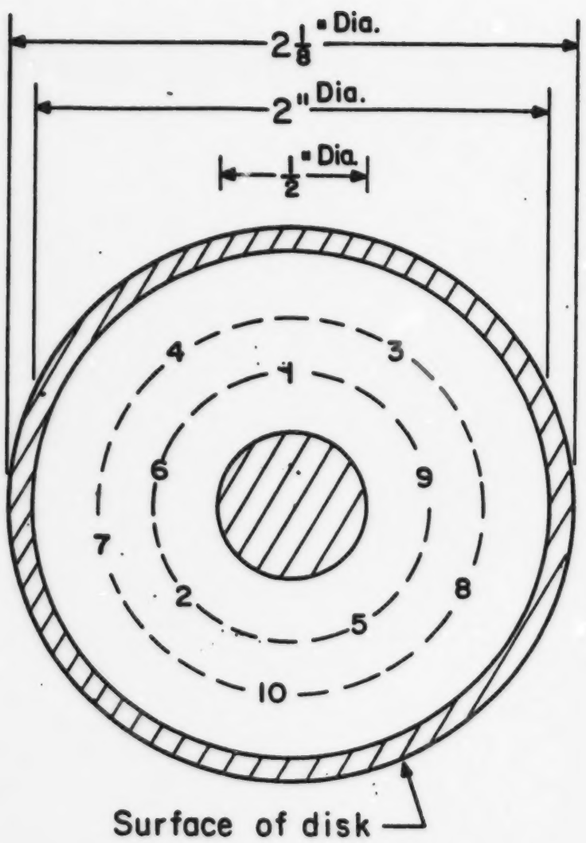
.../2

6) The disks will be returned to CCRMP at the conclusion of the contract.

The total number of disks is 188 and is broken down as follows:

Alloy	Disk	Control Disk Readings
1	23	7
2	30	9
3	31	9
4	31	10
5	20	6
6	28	8
7	25	8

FIGURE 1:



Order of Disk Measurement (Left to right)

Alloy

1. 1A023, 1D126, 1B035, 1B089, 1A023, 1B116, 1D016, 1A023, 1D099, 1D153, 1A143, 1A023, 1A095, 1D072, 1A023, 1A047, 1B062, 1B008, 1A023, 1D045, 1B144, 1A119, 1A023.

2. 2A011, 2C113, 2D040, 2B003, 2A011, 2C065, 2D138, 2A045, 2A011, 2D002, 2B101, 2C054, 2A011, 2B135, 2A147, 2A099, 2A011, 2C150, 2D086, 2D071, 2A011, 2C093, 2A090, 2A011, 2C016, 2B048, 2B062, 2A011, 2B147, 2A011.

3. 3A010, 2B034, 3C015, 3D016, 3A010, 3C149, 3B132, 3C129, 3A010, 3D101, 3C064, 3D080, 3A010, 3B086, 3B161, 3C042, 3A010, 3D123, 3C101, 3D157, 3A010, 3A120, 3A034, 3A101, 3A010, 3A075, 3B078, 3B009, 3A010, 3D047, 3A010.

4. 4A012, 2D030, 4B129, 4C148, 4A012, 4C067, 4A012, 4C038, 4A012, 4B163, 4A148, 4C106, 4A012, 4A109, 4B101, 4D104, 4A012, 4C014, 4C160, 4A080, 4A012, 4B079, 4A042, 4D070, 4A012, 4D056, 4D131, 4C042, 4A012, 4C008, 4A012.

5. 5A019, 5C131, 5B102, 5C072, 5A019, 5B035, 5C040, 5C026, 5A019, 5B018, 5C112, 5B077, 5A019, 5A086, 5B146, 5A131, 5A019, 5A101, 5A043, 5A019.

6. 6A014, 6C073, 6D066, 6C103, 6A014, 6C172, 6D039, 6A091, 6A014, 6B052, 6A075, 6B072, 6A014, 6D010, 6C132, 6C044, 6A014, 6B096, 6B158, 6C022, 6A014, 6A048, 6A162, 6B130, 6A014, 6A129, 6B011, 6A014.

7. 7A028, 7A069, 7B146, 7B030, 7A028, 7A110, 7A028, 7A053, 7A028, 7D023, 7B116, 7D061, 7A028, 7D031, 7C127, 7C003, 7A028, 7B054, 7C082, 7B075, 7A028, 7A132, 7C098, 7C052, 7A028.

Composition of Zinc/Aluminum Alloys

Alloy	Al	Cu	Mg	Fe	Cd	Pb	Sn
	%					ppm	
1	28.8	1.48	0.020	0.049	0.0011	8	52
2	23.6	2.96	0.028	0.024	0.0053	47	34
3	25.7	2.01	0.0055	0.070	0.0071	25	26
4	26.7	2.41	0.012	0.03	0.0034	44	77
5	10.3	1.06	0.023	0.017	0.010	8.4	11
6	7.37	3.18	0.001	0.014	0.013	815	50
7	13.0	0.20	0.055	0.016	0.0005	92	136

Kidd Creek Mines Ltd.
B-2002, Timmins, Ontario P4N 7K1
Metallurgical Site (705) 235-8121

October 10, 1985

Mr. Dana Sanderson
Science and Professional
Services Directorate
Place Du Portage
Phase III, 11C1
11 Laurier Street
Hull, Québec.
K1A 0S5

Dear Mr. Sanderson,

As you requested we are hereby submitting a technical proposal and a cost proposal to cover the contract work for the Canadian Certified Reference Materials Projects for certification of seven Zn/Al alloys.

Commencement of the analytical work will be undertaken immediately upon acceptance of the contract proposals and the subsequent receival of the alloy discs.

If you have any questions please do not hesitate to contact me.

Sincerely,

CHIEF CHEMIST

kidd

Kidd Creek Mines Ltd.
B-2002, Timmins, Ontario P4N 7K1
Metallurgical Site (705) 235-8121

TECHNICAL PROPOSAL

1. EQUIPMENT PARAMETERS:

All measurements will be made on the following unit under the prescribed conditions:

ARL quantometer model 127/air path
Power supply model 28000:
-low voltage arc
-discharge resistance: 10 OHMS
-ignitor primary balast: 125 OHMS
-stabiline electromechanical voltage regulator
-measurements: volt units printed on ASR-33 teletype writer
-pre-spark: 5 seconds
-spark: 20 seconds

2. ANALYTICAL WAVELENGTHS:

Wavelengths will be limited to the first order lines installed in the unit:

Zinc	2670.5 A
Iron	3020.6 A
Tin	3175.7 A
Magnesium	2802.7 A
Copper	2242.6 A
Aluminum	2881.6 A

3. SAMPLE TREATMENT:

Disc will be machined to your selected depth on a Standard Modern 9 inch utilathe:
sample revolutions @ 1500 R.P.M.
automatic cross feed @ .0185 inches of spindle revolutions

4. SAMPLE MEASUREMENT:

To be done as closely as possible to your specifications. Analytical data will be reported in the form of the printed out instrument voltage readings on which each disc measured will be clearly indentified and the elements required printed out in the following order:

1) Zn, 2) Fe, 3) Sn, 4) Mg, 5) Cu, 6) Al.

5. PERSONNEL:

All instrument and lathe work will be performed by:
Marcel Bélair-senior laboratory analyst.

kidd

Kidd Creek Mines Ltd.
B-2002, Timmins, Ontario P4N 7K1
Metallurgical Site (705) 235-8121

6. TIMING OF CONTRACT:

The contract will be completed within 8 weeks of receiving purchase order.

7. ANTICIPATED DIFFICULTIES:

i) Our current unit is committed to production control tasks throughout the week. All labour costs will therefore be at premium time for weekend work.

ii) Homogeneity of the standard discs will govern the accuracy and precision of measurements

CHIEF CHEMIST

Kidd Creek Mines Ltd.
B-2002, Timmins, Ontario P4N 7K1
Metallurgical Site (705) 235-8121

TECHICAL PROPOSAL - APPENDIX

Item:

1. Equipment Parameters:

The following instrument calibration conditions were employed for all groups:

Time - Fixed 19. Seconds

Zn (Internal Standard)	Attenuator setting	= 22
Fe	Attenuator setting	= 21
Sn	Attenuator setting	= 24
Mg	Attenuator setting	= 16
Cu	Attenuator setting	= 16
Al	Attenuator setting	= 4

Item:

6. Timing of Contract:

Authority was received by Kidd Creek Mines Ltd. to amend the delivery date of the contract from January 4, 1986 to February 21, 1986.

See attached letter.

kidd

Approvisionnements et Services Canada
Supply and Services Canada
Place du Portage
Phase III, 11C1
11 Laurier Street
Hull, Quebec
K1A 0S5

Votre référence Your file

Notre référence Our file
14SQ.23440-5-9149
0SQ85-00212

January 4, 1986

Kidd Creek Mines Ltd.
B-2002, Metallurgical Site
Timmins, Ontario
P4N 2K1

Attention: Mr. A. Gubbells

Dear Mr. Gubbells:

This letter is your authority to amend the delivery date of the contract entitled, "Homogeneity of Zn/Al Alloys" from January 4, 1986 to February 21, 1986.

All other terms and conditions of the contract remain unchanged.

Please attach this letter of authority to the contract and indicate your approval by signing and returning a copy of this letter to the undersigned (copy and envelope provided for your convenience).

Sincerely yours

for Maureen Brock
Science Procurement Officer
Science and Professional
Services Directorate
Science Branch

MB:dl

c.c.: C.W. Smith
Allocation
Finance Division

Canada

Energy, Mines and Resources Canada
Research and Technology
Canada Centre for Mineral and Energy Technology,
555 Booth Street
Ottawa, Ontario
K1A 0G1

Énergie, Mines et Ressources Canada
Recherche et technologie
Centre canadien de la technologie des minéraux et de l'énergie,
555, rue Booth,
Ottawa (Ontario)
K1A 0G1

Your file / Votre référence

Our file / Notre référence

C001-5

20 November 1985

Metallurgical Site,
Kidd Creek Mines,
B-2002,
Timmins, Ontario.
P4N 7K1

Attn.: Mr. L. Green, Chief Chemist
M. Marcel Bélair, Senior Analyst

Dear Sirs:

The zinc-aluminum alloy disc samples for the homogeneity measurements are being shipped on 21 November. [Re: DSS contract 14SQ.23440-5-9149].

Please note the disc number amendments to the measurement sequence (page 3 of the contract) which are attached.

Roy Churchill of our Spectrochemistry Section and I look forward to our meeting with you on the morning of 28 November.

Yours truly,

Clinton W. Smith,
Acting Coordinator, CCRMP.

Attach.

Canada

Corrected 1164.2010 - 8-1144

- Amended Disc Numbers (19 Nov. 1985, C.V. Smith, Scientific Authority)

Order of Disk Measurement (Left to right)

Alloy

1. 1A023, 1D126, 1B035, 1B089, 1A023, 1B116, 1D016, 1A023, 1D099, 1D153, 1A143, 1A023, 1A095, 1D072, 1A023, 1A047, 1B062, 1B008, 1A023, 1D045, 1B144, 1A119, 1A023.

2. 2A011, 2C113, 2D040, 2B003, 2A011, 2C065, 2D138, 2A045, 2A011, 2D002, 2B101, 2C054, 2A011, 2B135, 2A147, 2A099, 2A011, 2C150, 2D086, 2D071, 2A011, 2C093, 2A090, 2A011, 2C016, 2B048, 2B062, 2A011, 2B147, 2A011.

3. 3A010, ~~2B034~~ 3B034, 3C015, 3D016, 3A010, 3C149, 3B132, 3C129, 3A010, 3D101, 3C064, 3D080, 3A010, 3B086, 3B161, 3C042, 3A010, 3D123, 3C101, 3D157, 3A010, 3A120, 3A034, 3A101, 3A010, 3A075, 3B078, 3B009, 3A010, 3D047, 3A010.

4. 4A012, ~~2D030~~ 4D030, 4B129, Missing* ~~4C148~~ 4C129, 4A012, 4C079 ~~4C067~~, 4A012, ~~4C038~~ 4C101, 4A012, ~~4C014~~ 4B008, 4B163, 4A148, 4C106, 4A012, 4A109, 4B101, 4D104, 4A012, ~~4C163~~ ~~4C160~~, 4A080, 4A012, ~~4B079~~, 4A042, 4D070, 4A012, 4D056, 4D131, 4C042, 4A012, 4C008, 4A012. 4B042

5. 5A019, 5C131, 5B102, 5C072, 5A019, 5B035, 5C040, 5C026, 5A019, 5B018, 5C112, 5B077, 5A019, 5A086, 5B146, 5A131, 5A019, 5A101, 5A043, 5A019.

6. 6A014, 6C073, 6D066, ~~6C103~~ 6C073, 6A014, 6C172, 6D039, 6A091, 6A014, 6B052, 6A075, 6B072, 6A014, 6D010, 6C132, 6C044, 6A014, 6B096, 6B158, 6C022, 6A014, 6A048, 6A162, 6B130, 6A014, 6A129, 6B011, 6A014.

7. 7A028, 7A069, 7B146, 7B030, 7A028, 7A110, 7A028, 7A053, 7A028, 7D023, 7B116, 7D061, 7A028, 7D031, 7C127, 7C003, 7A028, 7B054, 7C082, 7B075, 7A028, ~~7A132~~ 7A133, 7C098, 7C052, 7A028.

TOTAL 187 DISCS.

* No. 4C106 could not be found in boxes received and was reported missing to Mr. Clinton Smith.

GRoup #1

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe.	Sn.	Mg.	Cu.	Al.	
1.644	0.901	6.220	0.846	3.012	1.734	2.931	
1.735	0.944	6.649	0.899	3.080	1.903	3.131	
1.700	0.936	6.461	0.883	2.960	1.646	2.978	
1.736	0.918	6.704	0.919	3.073	1.637	2.936	
1.669	0.968	7.461	0.992	3.167	1.707	3.124	1A023
1.683	0.915	6.322	0.880	2.852	1.710	2.965	
1.691	0.937	6.830	0.932	2.969	1.696	2.998	
1.746	0.951	6.872	0.914	3.033	1.719	2.871	
1.701	0.978	7.040	0.967	3.110	1.873	3.148	
1.770	1.029	7.775	1.037	3.221	1.627	3.275	
1.745	0.944	8.107	1.004	2.998	1.818	3.462	
1.742	0.988	8.025	0.998	3.113	1.854	3.358	
1.768	0.939	7.220	0.929	2.983	1.708	3.030	
1.746	0.982	7.585	0.971	3.101	1.739	3.198	
1.766	0.967	7.644	0.964	3.044	1.676	3.185	1D126
1.757	0.985	7.482	0.963	3.003	1.658	3.125	
1.784	0.998	7.684	0.968	3.126	1.733	3.108	
1.770	0.939	6.870	0.905	2.886	1.780	2.938	
1.788	0.977	7.459	0.962	2.874	1.609	3.274	
1.788	0.985	7.082	0.953	2.985	1.683	3.030	
1.946	1.060	7.555	0.994	3.433	2.008	3.348	
1.948	1.048	8.078	1.033	3.262	1.932	3.653	
1.947	1.058	7.836	1.007	3.383	1.955	3.284	
1.949	1.099	8.688	1.083	3.441	1.863	3.438	
1.949	1.059	7.828	1.030	3.337	1.709	3.342	1B035
1.949	1.053	7.418	0.988	3.286	1.884	3.343	
1.949	1.068	8.208	1.056	3.356	1.948	3.445	
1.949	0.954	6.632	0.906	3.016	1.690	3.057	
1.949	1.054	7.851	1.035	3.248	1.872	3.484	
1.949	0.992	7.850	1.030	3.120	1.675	3.271	
1.949	1.037	7.385	0.974	3.276	1.932	3.335	
1.949	1.054	7.732	1.010	3.442	1.972	3.296	
1.950	1.064	8.447	1.051	3.552	1.921	3.350	
1.950	1.097	8.843	1.081	3.403	1.865	3.458	
1.949	1.048	7.298	0.995	3.318	1.858	3.228	1B089
1.952	1.023	7.663	0.981	3.220	1.764	3.187	
1.949	1.012	7.794	0.981	3.152	1.704	3.167	
1.949	1.067	8.402	1.062	3.348	1.919	3.528	
1.952	1.028	7.202	0.991	3.090	1.721	3.202	
1.949	1.045	7.612	1.017	3.220	1.965	3.436	
1.952	1.044	7.008	0.989	3.399	1.947	3.301	
1.952	1.060	7.621	1.029	3.421	2.054	3.454	
1.949	1.045	7.230	1.001	3.262	1.845	3.290	
1.949	1.064	7.653	1.075	3.359	1.951	3.414	
1.949	0.944	7.589	0.986	2.634	1.161	2.964	1A023
1.949	1.052	7.313	1.024	3.362	1.942	3.294	
1.949	1.074	7.878	1.084	3.349	2.036	3.466	
1.950	0.951	6.967	0.947	2.974	1.543	3.069	
1.949	0.945	7.497	0.969	2.740	1.274	3.195	
1.949	1.084	8.072	1.094	3.294	1.939	3.408	

GROUP #1

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

TIME	ZN	Fe.	Sn.	Mg	Cu	Al	
1.949	1.035	7.714	1.019	3.300	1.872	3.304	
1.949	1.024	7.624	0.971	3.262	1.769	3.347	
1.949	1.071	8.309	1.035	3.367	2.040	3.416	
1.949	1.062	8.227	1.084	3.357	1.815	3.398	
1.949	1.051	8.211	1.044	3.332	1.693	3.324	1B116
1.949	1.078	8.440	1.088	3.367	1.951	3.526	
1.949	0.963	7.290	0.964	2.973	1.636	3.184	
1.949	1.091	8.617	1.090	3.370	1.832	3.430	
1.949	1.045	8.358	1.060	3.044	1.822	3.527	
1.949	1.096	8.889	1.122	3.399	1.870	3.475	
1.949	1.049	7.918	1.021	3.349	1.939	3.399	
1.949	1.052	8.098	1.046	3.245	2.080	3.441	
1.949	1.047	8.184	1.031	3.319	1.935	3.265	
1.949	0.981	7.477	0.953	3.035	1.612	3.203	
1.949	1.025	7.670	1.008	3.090	1.787	3.370	1D016
1.949	0.958	7.616	0.954	2.710	1.659	3.244	
1.949	1.126	9.648	1.199	3.432	1.835	3.488	
1.949	1.041	8.082	1.050	3.110	1.908	3.399	
1.949	1.062	7.398	1.027	3.065	1.862	3.346	
1.949	1.070	8.991	1.098	3.314	1.888	3.420	
1.949	1.026	6.947	0.978	3.272	2.018	3.375	
1.949	1.090	7.846	1.080	3.451	1.944	3.449	
1.949	0.956	6.688	0.928	3.202	1.777	3.003	
1.949	1.048	7.567	1.035	3.359	1.844	3.353	
1.949	0.999	7.892	1.036	2.843	1.624	3.485	1A023
1.949	1.052	7.278	1.012	3.220	1.823	3.312	
1.949	0.995	7.468	1.024	3.052	1.765	3.284	
1.949	1.078	8.659	1.108	3.374	1.896	3.521	
1.949	1.045	7.386	1.025	3.269	1.709	3.233	
1.949	1.045	8.518	1.121	3.366	1.710	3.250	
1.949	1.076	6.960	0.956	3.018	1.904	3.188	
1.949	1.036	7.946	1.023	3.165	2.086	3.541	
1.949	0.945	7.117	0.915	2.978	1.760	3.091	
1.949	1.090	8.090	1.080	3.294	1.893	3.385	
1.949	1.062	8.598	1.073	3.334	2.048	3.476	1D099
1.949	1.019	7.257	0.960	3.038	1.733	3.090	
1.949	1.099	8.925	1.159	3.399	1.953	3.523	
1.949	1.071	8.357	1.078	3.262	1.841	3.265	
1.949	0.995	7.591	0.976	2.854	1.630	3.293	
1.949	1.113	9.273	1.154	3.448	1.973	3.615	
1.949	1.025	8.110	1.028	3.118	1.961	3.662	
1.949	1.030	7.641	0.993	3.050	1.843	3.352	
1.949	1.055	8.825	1.073	3.303	2.015	3.471	
1.949	1.056	7.856	1.005	3.142	1.854	3.357	
1.949	0.988	7.510	0.974	2.940	1.714	3.323	1D153
1.949	1.014	7.302	0.958	3.035	1.834	3.124	
1.949	1.084	8.470	1.094	3.199	1.881	3.452	
1.949	1.052	8.562	1.059	3.239	1.956	3.337	
1.949	1.075	8.853	1.110	3.233	1.936	3.326	
1.949	1.073	8.178	1.071	3.235	1.886	3.618	

GROUP #1

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.949	1.060	7.766	1.024	3.356	2.063	3.457	
1.949	1.053	7.898	1.042	3.399	1.884	3.429	
1.949	1.077	8.427	1.085	3.419	1.911	3.617	
1.949	1.063	9.226	1.141	3.452	1.867	3.560	
1.949	1.054	8.070	1.055	3.232	2.024	3.513	1A 143
1.949	1.043	7.675	1.031	3.204	1.949	3.366	
1.949	1.106	8.553	1.108	3.517	2.006	3.621	
1.949	1.076	8.136	1.082	3.400	1.838	3.355	
1.949	1.068	7.899	1.056	3.302	1.929	3.415	
1.949	1.060	8.039	1.082	3.236	1.758	3.415	
1.949	1.044	7.432	1.034	3.351	1.859	3.355	
1.949	1.064	7.778	1.043	3.411	1.869	3.485	
1.949	1.064	7.910	1.060	3.335	1.841	3.376	
1.949	1.074	7.985	1.094	3.449	2.006	3.563	
1.949	1.045	8.053	1.086	3.302	1.833	3.349	1A 023
1.949	1.009	6.903	0.986	3.144	1.728	3.090	
1.949	1.085	8.215	1.087	3.399	1.967	3.597	
1.949	1.094	8.669	1.132	3.460	1.919	3.516	
1.949	1.071	7.827	1.065	3.375	1.746	3.222	
1.949	1.096	9.036	1.183	3.406	1.826	3.527	
1.949	1.052	7.637	1.029	3.246	2.185	3.568	
1.949	1.026	7.714	1.018	3.269	1.968	3.559	
1.949	1.047	8.157	1.084	3.406	1.684	3.187	
1.949	1.048	7.224	1.015	3.320	1.836	3.399	1A 095
1.949	1.046	7.584	1.024	3.274	1.907	3.522	
1.949	1.089	8.594	1.176	3.414	1.990	3.863	
1.949	1.066	8.402	1.074	3.385	1.572	3.443	
1.949	1.075	8.548	1.092	3.403	1.889	3.449	
1.949	1.072	7.837	1.092	3.138	1.890	3.556	
1.949	1.030	7.992	1.032	3.176	1.716	3.248	
1.949	1.051	7.660	1.020	3.295	2.030	3.376	
1.949	0.952	6.146	0.864	2.854	1.675	2.956	
1.949	1.083	9.153	1.161	3.381	2.063	3.695	
1.949	1.021	7.215	0.988	3.028	1.940	3.360	
1.949	0.983	7.308	0.970	2.951	1.825	3.111	1D 072
1.949	1.056	8.183	1.078	3.295	1.715	3.361	
1.949	1.023	7.737	1.023	3.040	1.819	3.335	
1.949	1.082	8.311	1.083	3.145	1.828	3.498	
1.949	1.021	7.664	1.015	3.111	1.670	3.172	
1.949	1.017	7.833	1.021	3.006	1.682	3.284	
1.949	1.006	6.444	0.940	3.088	1.890	3.266	
1.949	1.076	7.763	1.069	3.400	1.859	3.432	
1.949	1.076	7.754	1.085	3.311	1.982	3.424	
1.949	1.051	7.294	1.058	3.258	1.681	3.319	
1.949	1.000	7.076	0.971	3.178	1.643	3.235	1A 023
1.949	1.071	8.115	1.135	3.323	1.840	3.441	
1.949	0.986	6.233	0.900	3.006	1.773	3.008	
1.949	1.066	8.574	1.096	3.390	1.850	3.398	
1.949	1.102	8.168	1.142	3.395	1.935	3.534	
1.949	1.066	7.920	1.049	3.360	1.825	3.205	

GROUP # 1

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.949	1.012	6.399	0.947	3.250	1.911	3.150	
1.949	1.054	7.349	1.041	3.204	2.151	3.545	
1.949	1.039	7.709	1.036	3.296	1.890	3.252	
1.949	0.947	6.543	0.944	3.003	1.521	3.060	
1.949	1.016	7.637	1.018	3.226	1.905	3.294	1A047
1.949	1.085	7.571	1.044	3.294	1.864	3.332	
1.949	1.074	7.977	1.076	3.349	1.858	3.399	
1.949	1.092	8.934	1.170	3.391	1.936	3.628	
1.949	1.081	8.321	1.147	3.386	2.077	3.631	
1.949	1.053	8.379	1.112	3.272	1.651	3.373	
1.949	1.007	6.592	0.953	3.140	1.908	3.286	
1.949	1.054	7.974	1.051	3.308	2.159	3.514	
1.949	0.919	7.437	0.951	2.667	1.518	3.224	
1.949	1.040	7.622	1.006	3.255	1.979	3.286	
1.949	1.014	8.059	1.018	3.253	1.850	3.356	1B062
1.949	1.096	8.277	1.098	3.376	1.860	3.520	
1.949	1.011	8.052	1.016	3.245	1.858	3.274	
1.949	1.021	8.170	1.015	3.170	1.891	3.271	
1.949	1.108	7.993	1.118	3.381	1.957	3.424	
1.949	1.088	8.783	1.108	3.400	1.835	3.382	
1.949	1.061	8.588	1.094	3.318	2.025	3.824	
1.949	1.052	7.819	1.040	3.372	1.982	3.471	
1.949	1.054	7.701	1.025	3.410	2.002	3.258	
1.949	1.053	8.331	1.072	3.368	1.942	3.509	
1.949	1.043	7.906	1.036	3.364	1.766	3.409	1B008
1.949	1.006	6.851	0.944	3.117	1.761	3.226	
1.949	1.051	7.520	1.020	3.240	1.933	3.489	
1.949	1.046	8.026	1.046	3.435	1.971	3.412	
1.949	0.966	6.625	0.926	3.090	1.600	3.177	
1.949	1.063	8.055	1.051	3.304	1.918	3.347	
1.949	1.022	7.463	1.013	3.386	1.986	3.339	
1.949	0.941	6.955	0.970	2.591	1.641	3.407	
1.949	1.034	7.489	1.003	3.235	1.991	3.453	
1.949	1.010	6.989	0.964	3.163	1.826	3.233	
1.949	1.018	7.070	0.968	3.174	1.824	3.261	1A023
1.949	1.076	7.611	1.054	3.263	1.860	3.410	
1.949	1.041	7.180	1.020	3.177	1.893	3.381	
1.949	1.048	7.526	1.028	3.269	1.913	3.322	
1.949	1.028	7.105	1.020	3.146	1.652	3.173	
1.949	1.088	8.721	1.145	3.420	1.846	3.602	
1.949	0.956	7.225	0.931	2.800	1.886	3.505	
1.949	1.031	7.399	0.995	3.142	1.758	3.217	
1.949	1.019	7.890	1.007	3.111	1.946	3.281	
1.949	1.047	7.255	1.024	3.137	1.877	3.301	
1.949	1.042	7.765	1.041	3.282	1.751	3.225	1D045
1.949	1.067	8.084	1.052	3.196	1.931	3.490	
1.949	0.919	6.242	0.856	2.913	1.584	2.886	
1.949	1.050	7.103	1.008	3.072	1.846	3.268	
1.949	1.049	7.908	1.059	3.103	1.980	3.513	
1.949	1.030	7.436	1.025	3.163	1.806	3.374	

GROUP # 1

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.949	0.986	7.098	0.941	3.015	1.866	3.265	
1.949	1.005	7.118	0.982	3.166	1.730	3.007	
1.949	0.973	7.160	0.931	3.141	1.649	2.950	
1.949	0.849	6.318	0.810	2.771	1.376	2.567	
1.949	1.015	7.086	0.989	3.074	1.862	3.276	1B 144
1.949	1.021	7.320	0.994	3.115	1.880	3.419	
1.949	1.053	7.335	1.000	3.228	1.790	3.406	
1.949	1.013	6.860	0.969	3.063	1.840	3.230	
1.949	1.076	8.028	1.064	3.372	1.766	3.399	
1.949	1.062	8.155	1.095	3.334	1.650	3.434	
1.949	0.993	6.366	0.916	3.098	1.948	3.164	
1.949	0.997	7.144	0.971	3.255	1.842	3.083	
1.948	0.984	6.408	0.914	3.065	1.768	3.086	
1.949	1.029	7.371	1.023	3.170	1.957	3.502	
1.949	1.013	7.240	1.002	3.156	1.733	3.104	1A 119
1.949	1.022	7.429	1.021	3.088	1.781	3.148	
1.949	1.085	8.273	1.119	3.314	1.856	3.466	
1.949	0.938	6.866	0.978	2.810	1.586	3.121	
1.949	1.049	6.985	1.027	3.048	1.804	3.424	
1.949	1.085	8.801	1.168	3.399	1.810	3.592	
1.949	1.031	7.324	1.050	3.351	2.053	3.553	
1.949	1.002	7.141	0.986	2.945	1.780	3.335	
1.949	1.037	7.130	1.003	3.201	1.829	3.191	
1.949	1.070	7.731	1.074	3.268	1.728	3.356	
1.949	0.958	7.210	0.990	3.038	1.373	2.884	1A 023
1.949	1.007	6.856	1.000	3.050	1.611	3.112	
1.949	1.069	7.576	1.071	3.288	1.834	3.297	
1.949	1.036	7.366	1.034	3.131	1.847	3.257	
1.949	1.047	7.459	1.070	3.184	1.722	3.193	
1.949	1.062	8.060	1.078	3.181	1.870	3.286	

GROUP #2

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.929	1.176	4.024	0.830	4.968	3.465	3.476	
1.929	1.168	3.738	0.816	4.405	3.634	3.442	
1.929	1.221	4.184	0.855	4.698	3.849	3.656	
1.929	1.235	4.350	0.870	5.054	3.522	3.459	
1.930	1.183	5.034	0.924	4.375	3.692	3.574	2A011
1.930	1.195	4.302	0.866	4.749	3.642	3.611	
1.930	1.212	4.246	0.851	4.833	3.226	3.405	
1.930	1.114	3.849	0.782	4.455	3.188	3.325	
1.930	1.214	4.432	0.868	4.854	3.300	3.595	
1.930	1.240	4.951	0.915	5.045	3.346	3.610	
1.930	1.151	3.932	0.790	4.451	3.548	3.452	
1.929	1.190	4.266	0.844	4.634	3.572	3.514	
1.930	1.197	4.330	0.839	4.669	3.412	3.536	
1.929	1.184	4.197	0.824	4.712	3.136	3.435	
1.930	1.166	4.031	0.814	4.634	3.184	3.271	2C113
1.930	1.210	4.580	0.873	4.695	3.486	3.823	
1.930	1.164	3.991	0.806	4.569	3.216	3.370	
1.930	1.255	4.842	0.905	4.893	3.422	3.696	
1.930	1.200	4.494	0.843	4.602	3.223	3.536	
1.930	1.229	4.536	0.881	4.725	3.414	3.622	
1.930	1.137	4.032	0.790	4.633	3.334	3.379	
1.930	1.150	4.211	0.816	4.662	3.331	3.375	
1.930	1.119	3.957	0.770	4.734	3.317	3.253	
1.930	1.187	4.507	0.880	4.900	3.372	3.828	
1.930	1.167	3.925	0.807	4.424	3.210	3.404	2D040
1.930	1.204	4.527	0.869	4.698	3.376	3.470	
1.930	1.170	3.980	0.788	4.512	3.254	3.269	
1.930	1.230	4.578	0.872	4.924	3.304	3.495	
1.930	1.214	4.538	0.864	4.881	3.416	3.542	
1.930	1.116	3.871	0.774	4.349	3.234	3.201	
1.929	1.201	4.475	0.882	4.835	3.462	3.666	
1.930	1.171	4.108	0.825	4.788	3.213	3.434	
1.930	1.213	4.253	0.851	4.886	3.232	3.509	
1.929	1.176	3.999	0.826	4.335	3.384	3.451	
1.929	1.214	4.656	0.900	4.926	3.102	3.563	2B003
1.930	1.138	3.416	0.754	4.226	3.012	3.189	
1.929	1.192	4.231	0.846	4.644	3.126	3.421	
1.929	1.157	4.130	0.811	4.485	3.090	3.355	
1.929	1.211	4.466	0.826	4.541	3.274	3.552	
1.930	1.229	4.535	0.866	4.638	3.116	3.555	
1.929	1.169	3.926	0.833	4.692	3.701	3.570	
1.929	1.196	4.236	0.859	4.850	3.518	3.621	
1.929	1.201	4.155	0.848	4.754	3.271	3.553	
1.929	1.222	4.668	0.904	4.958	3.424	3.708	
1.929	1.189	4.215	0.834	4.488	3.218	3.580	2A011
1.929	1.173	4.101	0.826	4.566	3.269	3.628	
1.929	1.151	3.940	0.800	4.543	3.098	3.419	
1.929	1.193	4.671	0.876	4.774	3.258	3.702	
1.929	1.229	4.728	0.890	4.907	3.327	3.732	
1.929	1.254	4.782	0.933	4.977	3.248	3.687	

GROUP #2

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.929	1.160	3.941	0.803	4.579	3.489	3.490	
1.929	1.183	4.171	0.826	4.645	3.514	3.621	
1.930	1.215	4.504	0.864	4.806	3.386	3.530	
1.929	1.281	4.881	0.929	5.073	3.418	3.772	
1.929	1.189	4.057	0.812	4.692	2.901	3.371	2C 065
1.929	1.267	4.513	0.877	4.739	3.155	3.605	
1.929	1.244	4.861	0.914	4.892	3.578	3.783	
1.929	1.201	4.073	0.829	4.401	3.348	3.416	
1.929	1.197	4.226	0.830	4.470	3.150	3.557	
1.930	1.211	4.898	0.894	4.788	3.172	3.663	
1.929	1.188	4.241	0.822	4.502	3.555	3.613	
1.929	1.135	3.545	0.750	4.260	3.109	3.268	
1.930	1.269	4.631	0.890	4.757	3.464	3.741	
1.930	1.229	4.648	0.871	4.764	3.320	3.651	
1.930	1.226	4.596	0.900	4.657	3.663	3.848	2D 138
1.929	1.231	4.280	0.835	4.554	3.487	3.733	
1.930	1.229	4.821	0.894	4.876	3.310	3.636	
1.929	1.182	4.488	0.850	4.590	3.151	3.570	
1.930	1.174	4.025	0.813	4.399	3.313	3.564	
1.930	1.264	5.704	0.976	4.991	3.653	3.956	
1.930	1.195	4.118	0.846	4.865	3.673	3.565	
1.930	1.168	3.935	0.814	4.686	3.385	3.441	
1.930	1.193	4.399	0.874	4.651	3.486	3.605	
1.929	1.182	4.252	0.839	4.874	3.098	3.451	
1.929	1.183	4.241	0.843	4.667	3.286	3.541	2A 045
1.930	1.175	4.239	0.849	4.687	3.580	3.472	
1.930	1.224	4.425	0.864	4.875	3.058	3.456	
1.929	1.215	4.394	0.866	4.695	3.126	3.441	
1.930	1.158	3.844	0.800	4.346	3.044	3.407	
1.930	1.232	4.767	0.918	4.738	3.405	3.731	
1.930	1.222	4.552	0.901	4.964	3.496	3.710	
1.930	1.219	4.368	0.878	4.970	3.678	3.711	
1.930	1.222	4.385	0.868	4.809	3.399	3.618	
1.930	1.200	4.217	0.857	4.661	3.329	3.565	
1.929	1.187	3.998	0.847	4.186	3.215	3.496	2A 011
1.930	1.243	4.435	0.922	4.329	3.282	3.512	
1.930	1.235	4.660	0.894	4.921	3.221	3.559	
1.930	1.232	4.726	0.941	4.914	3.166	3.652	
1.930	1.243	4.496	0.855	4.513	3.300	3.592	
1.930	1.194	3.544	0.748	4.267	2.728	3.107	
1.929	1.176	4.442	0.875	4.634	3.479	3.623	
1.930	1.119	3.874	0.769	4.351	3.190	3.386	
1.930	1.158	4.075	0.814	4.551	3.256	3.474	
1.930	1.196	4.324	0.837	4.621	3.198	3.478	
1.930	1.244	4.448	0.860	4.535	3.255	3.550	2D 002
1.930	1.248	4.737	0.913	4.708	3.466	3.758	
1.929	1.186	4.251	0.826	4.469	3.232	3.437	
1.930	1.181	4.309	0.838	4.505	3.226	3.556	
1.929	1.241	4.423	0.850	4.505	3.214	3.578	
1.929	1.244	4.892	0.917	4.838	3.363	3.812	

GROUP #2

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Mn	Fe	Sn	Mg	Cu	Al	
1.930	1.192	4.058	0.845	4.628	3.628	3.494	
1.930	1.148	3.736	0.773	4.576	3.276	3.307	
1.930	1.208	4.296	0.843	4.770	3.430	3.506	
1.929	1.131	3.536	0.754	4.454	3.178	3.248	
1.930	1.221	4.303	0.864	4.813	3.399	3.474	2B101
1.929	1.204	4.716	0.898	4.855	3.346	3.600	
1.929	1.188	4.163	0.842	4.644	3.247	3.415	
1.930	1.204	4.270	0.849	4.698	3.358	3.571	
1.930	1.205	3.886	0.810	4.539	3.253	3.360	
1.930	1.240	4.776	0.915	5.045	3.535	3.837	
1.929	1.183	4.270	0.841	4.842	3.328	3.525	
1.930	1.173	4.250	0.832	4.530	3.425	3.472	
1.929	1.154	4.141	0.809	4.632	3.252	3.420	
1.930	1.125	3.782	0.763	4.369	3.043	3.168	
1.930	1.162	4.096	0.828	4.629	3.238	3.401	2C054
1.929	1.135	3.853	0.771	4.494	3.033	3.242	
1.929	1.227	4.401	0.871	4.687	3.156	3.535	
1.929	1.187	4.530	0.890	4.864	3.503	3.536	
1.930	1.188	4.076	0.830	4.531	3.198	3.408	
1.930	1.160	4.066	0.810	4.556	3.064	3.283	
1.930	1.202	4.330	0.859	4.860	3.220	3.550	
1.930	1.173	4.356	0.822	4.776	3.385	3.414	
1.930	1.221	4.132	0.853	4.636	3.271	3.469	
1.930	1.204	4.302	0.852	4.638	3.228	3.561	
1.930	1.224	4.455	0.869	4.691	3.266	3.660	2A011
1.930	1.232	4.556	0.914	4.630	3.365	3.575	
1.930	1.220	4.275	0.865	4.673	3.096	3.374	
1.929	1.229	4.443	0.899	4.801	3.256	3.581	
1.930	1.223	4.276	0.878	4.661	3.555	3.684	
1.930	1.275	4.983	0.955	4.956	3.048	3.660	
1.930	1.161	3.751	0.820	4.398	3.691	3.478	
1.929	1.202	4.460	0.868	4.745	3.531	3.803	
1.930	1.225	4.234	0.853	4.848	3.596	3.521	
1.930	1.214	4.545	0.884	4.882	3.298	3.674	
1.930	1.214	4.531	0.875	4.810	3.309	3.611	2B135
1.930	1.246	4.694	0.911	4.766	3.504	3.803	
1.929	1.243	4.875	0.909	5.044	3.337	3.637	
1.930	1.207	4.465	0.878	4.659	3.366	3.590	
1.929	1.193	3.958	0.822	4.399	3.414	3.514	
1.929	1.215	4.493	0.862	4.467	3.248	3.331	
1.930	1.173	3.989	0.822	4.897	3.488	3.588	
1.929	1.117	3.368	0.736	4.234	3.031	3.061	
1.929	1.185	4.424	0.863	4.814	3.352	3.595	
1.929	1.209	4.758	0.905	4.859	3.609	3.706	
1.930	1.238	4.292	0.850	4.522	3.350	3.681	2A147
1.930	1.213	4.568	0.898	4.840	3.476	3.670	
1.929	1.218	4.211	0.849	4.681	3.102	3.523	
1.930	1.135	3.831	0.770	4.446	3.030	3.281	
1.929	1.218	3.895	0.815	4.373	3.169	3.346	
1.929	1.251	4.358	0.880	4.868	3.372	3.552	

GROUP #2

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.938	1.142	3.750	0.800	4.678	3.358	3.449	
1.929	1.211	4.470	0.893	4.944	3.530	3.749	
1.929	1.248	4.398	0.891	4.874	3.168	3.572	
1.929	1.118	3.676	0.762	4.473	2.638	3.182	
1.929	1.209	4.274	0.872	4.662	3.498	3.587	2A 099
1.929	1.102	3.229	0.717	4.368	3.091	3.061	
1.929	1.222	4.502	0.884	4.761	3.305	3.644	
1.929	1.230	4.318	0.878	4.824	3.710	3.689	
1.929	1.188	4.060	0.820	4.570	3.050	3.385	
1.930	1.132	4.310	0.853	4.667	3.072	3.445	
1.929	1.215	4.660	0.910	5.023	3.656	3.811	
1.930	1.198	4.176	0.841	4.698	3.426	3.454	
1.929	1.152	3.846	0.802	4.459	3.414	3.495	
1.930	1.214	4.147	0.861	4.506	3.272	3.487	2A 011
1.929	1.132	3.592	0.765	4.380	2.928	3.198	
1.929	1.163	4.210	0.859	4.554	3.476	3.752	
1.929	1.230	4.532	0.884	4.769	3.273	3.715	
1.929	1.225	4.166	0.876	4.721	3.530	3.495	
1.929	1.170	3.899	0.815	4.270	2.836	3.295	
1.929	1.208	4.399	0.862	4.662	2.886	3.389	
1.929	1.129	3.423	0.742	4.311	3.073	3.170	
1.929	1.098	3.362	0.723	4.171	3.030	3.019	
1.929	1.197	4.356	0.858	4.558	2.901	3.522	
1.930	1.167	4.026	0.820	4.315	3.339	3.417	2C 150
1.929	1.156	4.002	0.829	4.330	3.238	3.496	
1.929	1.178	4.083	0.828	4.451	3.225	3.399	
1.929	1.240	4.354	0.883	4.565	3.155	3.573	
1.929	1.200	4.354	0.854	4.575	3.315	3.511	
1.929	1.243	4.550	0.901	4.549	3.421	3.744	
1.929	1.222	4.644	0.882	4.620	3.072	3.536	
1.929	1.087	3.524	0.738	4.231	2.928	3.221	
1.929	1.174	3.999	0.819	4.588	3.166	3.428	
1.929	1.098	3.696	0.752	4.260	2.987	3.177	
1.929	1.215	4.529	0.876	4.582	3.162	3.584	
1.929	1.192	4.111	0.840	4.447	3.345	3.363	2D 086
1.929	1.203	4.343	0.861	4.471	3.289	3.580	
1.929	1.222	4.505	0.882	4.735	3.141	3.533	
1.929	1.196	4.393	0.849	4.552	3.225	3.549	
1.929	1.231	4.608	0.958	4.830	3.276	3.862	
1.929	1.224	4.399	0.849	4.439	3.134	3.601	
1.929	1.142	3.554	0.752	4.217	3.241	3.222	
1.929	1.174	4.163	0.849	4.411	3.518	3.621	
1.929	1.211	4.291	0.849	4.676	3.335	3.583	
1.929	1.229	4.464	0.861	4.566	3.259	3.599	
1.929	1.136	3.788	0.765	4.219	3.242	3.551	2D 071
1.929	1.194	3.613	0.759	4.321	3.153	3.145	
1.929	1.217	4.471	0.866	4.548	3.158	3.676	
1.929	1.179	4.148	0.826	4.431	3.275	3.487	
1.929	1.211	4.434	0.877	4.497	3.426	3.595	
1.928	1.245	5.000	0.913	4.756	3.432	3.774	

GROUP #2

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sm	Mg	Cu	Al	
1.928	1.192	4.281	0.896	4.592	3.436	3.740	
1.928	1.092	3.363	0.731	4.344	2.921	3.133	
1.929	1.184	3.970	0.835	4.456	3.251	3.412	
1.929	1.189	3.845	0.825	4.628	3.118	3.354	
1.929	1.207	4.174	0.855	4.583	3.295	3.523	2A 011
1.929	1.172	4.130	0.840	4.673	3.140	3.419	
1.929	1.215	4.146	0.848	4.616	3.296	3.449	
1.929	1.191	3.889	0.823	4.277	3.148	3.465	
1.929	1.175	4.036	0.826	4.561	2.855	3.335	
1.929	1.202	4.308	0.858	4.563	3.135	3.509	
1.929	1.132	3.547	0.766	4.352	3.696	3.588	
1.929	1.166	3.922	0.787	4.422	3.240	3.481	
1.929	1.194	4.349	0.835	4.636	3.345	3.510	
1.929	1.171	3.936	0.818	4.371	3.191	3.399	
1.929	1.224	4.470	0.862	4.708	3.384	3.591	2C 093
1.929	1.182	4.135	0.847	4.423	3.292	3.483	
1.929	1.191	4.360	0.864	4.541	3.294	3.481	
1.929	1.165	3.856	0.803	4.290	3.339	3.225	
1.929	1.232	4.594	0.887	4.688	3.269	3.600	
1.929	1.217	4.542	0.890	4.489	3.241	3.570	
1.929	1.197	4.084	0.853	4.761	3.536	3.653	
1.929	1.156	3.759	0.800	4.628	3.443	3.412	
1.929	1.144	3.284	0.740	4.268	3.345	3.194	
1.929	1.227	4.166	0.869	4.541	3.292	3.660	
1.929	1.081	3.674	0.752	4.339	2.810	3.259	2A 090
1.929	1.189	4.089	0.840	4.692	3.296	3.543	
1.929	1.056	3.497	0.730	4.173	2.697	3.078	
1.929	1.171	4.291	0.859	4.392	2.985	3.450	
1.929	1.185	3.826	0.812	4.519	2.990	3.403	
1.929	1.242	4.462	0.892	4.809	3.091	3.600	
1.929	1.240	4.396	0.912	4.819	3.418	3.871	
1.928	1.227	4.319	0.883	4.740	3.256	3.666	
1.929	1.081	3.695	0.763	4.389	2.730	3.214	
1.929	1.252	4.661	0.928	4.841	3.458	3.904	
1.929	1.232	4.431	0.905	4.830	3.198	3.761	2A 011
1.929	1.206	4.195	0.869	4.918	3.216	3.480	
1.928	1.115	3.885	0.782	4.285	2.554	3.251	
1.929	1.212	4.128	0.844	4.550	3.183	3.355	
1.929	1.114	3.402	0.738	4.264	2.790	3.429	
1.929	1.216	4.304	0.865	4.617	2.943	3.519	
1.929	1.189	3.453	0.749	4.355	3.294	3.388	
1.928	1.110	3.398	0.732	4.344	2.952	3.230	
1.928	1.172	4.144	0.835	4.572	3.292	3.446	
1.928	1.213	4.297	0.864	4.668	3.172	3.581	
1.929	1.191	4.188	0.840	4.640	3.286	3.550	2C 016
1.929	1.236	4.765	0.917	4.894	3.520	3.701	
1.929	1.178	3.956	0.826	4.344	3.171	3.436	
1.929	1.188	4.019	0.833	4.422	3.281	3.392	
1.929	1.209	4.141	0.851	4.469	3.397	3.606	
1.928	1.230	4.665	0.878	4.645	3.365	3.515	

GROUP #2

P-6

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.928	1.193	3.895	0.818	4.687	3.216	3.439	
1.928	1.163	3.738	0.800	4.469	3.175	3.404	
1.929	1.194	4.293	0.859	4.880	3.519	3.519	
1.929	1.153	3.765	0.802	4.468	3.277	3.243	
1.929	1.190	3.740	0.815	4.459	3.205	3.302	
1.928	1.165	3.881	0.804	4.743	3.044	3.276	2B 048
1.929	1.121	3.554	0.752	4.120	2.802	3.201	
1.929	1.193	4.467	0.880	4.608	3.062	3.534	
1.929	1.200	4.286	0.863	4.524	3.321	3.581	
1.928	1.236	4.597	0.892	4.677	2.971	3.584	
1.929	1.167	3.549	0.782	4.466	3.224	3.269	
1.928	1.189	4.085	0.845	4.610	3.402	3.591	
1.928	1.192	4.396	0.883	4.706	3.420	3.730	
1.929	1.226	4.126	0.850	4.728	3.128	3.427	
1.928	1.189	4.093	0.831	4.573	3.193	3.412	2B 062
1.929	1.158	3.860	0.826	4.471	3.329	3.357	
1.929	1.187	4.193	0.838	4.555	3.009	3.468	
1.928	1.171	4.138	0.819	4.602	3.112	3.399	
1.929	1.214	4.212	0.858	4.639	3.178	3.434	
1.929	1.209	3.938	0.828	4.486	3.094	3.399	
1.929	0.929	2.226	0.600	3.662	2.349	2.551	
1.929	1.140	3.665	0.778	4.556	3.220	3.296	
1.928	1.180	4.142	0.840	4.741	3.289	3.533	
1.928	1.212	4.027	0.849	4.491	3.173	3.498	
1.928	1.225	4.223	0.874	4.663	3.373	3.659	2A 011
1.928	1.168	3.888	0.821	4.420	3.030	3.388	
1.928	1.251	4.170	0.874	4.585	2.776	3.458	
1.929	1.100	3.731	0.779	4.286	2.760	3.276	
1.928	1.225	4.137	0.863	4.701	2.950	3.409	
1.928	1.197	4.140	0.837	4.805	2.966	3.398	
1.928	1.180	3.550	0.804	4.441	3.236	3.387	
1.928	1.198	4.011	0.846	4.708	3.118	3.403	
1.928	1.160	3.631	0.775	4.405	3.230	3.307	
1.928	1.141	3.187	0.748	4.181	2.993	3.195	
1.929	1.179	4.068	0.828	4.524	3.120	3.388	2B 147
1.928	1.212	4.454	0.893	4.607	3.022	3.618	
1.928	1.222	4.226	0.865	4.696	3.180	3.441	
1.929	1.210	3.871	0.837	4.382	3.045	3.392	
1.929	1.155	3.716	0.800	4.393	2.894	3.302	
1.928	1.218	4.039	0.851	4.454	3.010	3.441	
1.928	1.173	3.608	0.805	4.478	2.960	3.365	
1.929	1.154	3.856	0.810	4.402	2.944	3.309	
1.928	1.235	4.440	0.890	4.735	3.114	3.606	
1.928	1.221	4.173	0.854	4.570	2.918	3.530	
1.928	1.255	4.548	0.920	4.774	3.094	3.742	2A 011
1.928	1.169	3.534	0.780	4.221	2.721	3.328	
1.928	1.201	4.442	0.871	4.626	3.039	3.480	
1.928	1.216	4.139	0.850	4.548	2.871	3.402	
1.928	1.176	3.856	0.818	4.419	2.701	3.399	
1.928	1.239	4.425	0.892	4.641	2.868	3.556	

GROUP 3

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.933	1.672	9.774	0.596	1.752	2.594	3.446	
1.934	1.636	9.154	0.559	1.698	2.614	3.496	
1.933	1.176	9.856	0.645	1.777	2.591	3.467	
1.934	1.174	9.953	0.594	1.674	2.496	3.371	
1.933	1.781	9.954	0.594	1.672	2.405	3.519	3A010
1.934	1.778	9.955	0.595	1.791	2.427	3.432	
1.933	1.163	9.694	0.592	1.686	2.325	3.461	
1.933	1.178	9.830	0.608	1.736	2.571	3.533	
1.933	1.298	9.954	0.598	1.644	2.318	3.631	
1.933	0.376	9.152	0.508	1.454	2.115	3.168	
1.933	1.813	9.743	0.557	1.526	2.485	3.561	
1.933	1.854	9.492	0.549	1.692	2.488	3.353	
1.932	0.961	8.123	0.512	1.504	2.049	3.045	
1.933	1.869	9.859	0.597	1.715	2.516	3.401	
1.933	1.876	9.694	0.556	1.638	2.399	3.263	3B034
1.933	0.969	9.667	0.554	1.484	2.128	3.412	
1.933	1.881	9.843	0.573	1.652	2.428	3.368	
1.933	1.747	9.457	0.557	1.586	2.269	3.224	
1.933	0.990	9.757	0.554	1.585	2.348	3.266	
1.933	1.186	9.848	0.615	1.713	2.368	3.582	
1.934	1.765	9.979	0.514	1.686	2.345	3.174	
1.933	1.658	9.646	0.591	1.757	2.523	3.471	
1.933	1.741	9.372	0.564	1.655	2.263	3.382	
1.933	1.836	9.856	0.561	1.603	2.084	3.228	
1.933	1.896	9.849	0.609	1.699	2.268	3.426	3C015
1.933	1.833	9.858	0.556	1.687	2.334	3.394	
1.933	1.189	9.847	0.674	1.686	2.353	3.450	
1.933	1.179	9.858	0.592	1.763	2.359	3.484	
1.933	1.837	9.598	0.545	1.499	2.390	3.420	
1.933	0.954	9.768	0.589	1.459	2.158	3.120	
1.933	1.826	9.855	0.543	1.517	2.418	3.358	
1.933	1.837	9.850	0.551	1.583	2.594	3.491	
1.933	0.998	9.748	0.524	1.536	2.116	2.966	
1.933	1.142	9.843	0.624	1.697	2.435	3.562	
1.933	1.788	9.853	0.524	1.545	2.028	3.171	3D016
1.933	1.875	9.845	0.566	1.593	2.441	3.491	
1.933	1.889	9.833	0.591	1.642	2.428	3.481	
1.933	1.853	9.836	0.572	1.591	2.355	3.407	
1.933	1.848	9.858	0.552	1.585	2.278	3.282	
1.933	0.963	9.854	0.518	1.447	2.088	3.021	
1.933	1.874	9.748	0.594	1.745	2.416	3.421	
1.933	1.888	9.852	0.585	1.693	2.428	3.493	
1.933	0.998	9.831	0.546	1.557	2.339	3.319	
1.933	1.112	9.934	0.595	1.711	2.341	3.572	
1.933	1.743	9.849	0.573	1.653	2.364	3.383	3A010
1.933	1.893	9.519	0.541	1.584	2.288	3.221	
1.933	1.835	9.843	0.539	1.560	2.288	3.133	
1.933	1.894	9.858	0.574	1.746	2.389	3.318	
1.933	1.183	9.845	0.613	1.728	2.563	3.539	
1.933	1.832	9.842	0.558	1.648	2.485	3.382	

Group 3

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.934	1.147	9.191	0.561	1.711	0.378	3.342	
1.934	1.269	9.843	0.594	1.735	0.592	3.537	
1.934	1.176	9.844	0.623	1.715	0.484	3.478	
1.934	1.257	9.841	0.579	1.632	0.438	3.349	
1.934	1.184	9.835	0.614	1.663	0.617	3.638	
1.934	1.291	9.836	0.627	1.735	0.394	3.452	3C 149
1.934	1.147	9.857	0.575	1.655	0.235	3.212	
1.934	1.207	9.840	0.647	1.698	0.371	3.466	
1.934	1.164	9.838	0.625	1.678	0.474	3.497	
1.934	1.159	9.848	0.656	1.729	0.512	3.574	
1.934	1.275	9.857	0.592	1.767	0.623	3.397	
1.934	1.118	9.843	0.611	1.652	0.712	3.685	
1.934	1.230	9.854	0.591	1.754	0.485	3.579	
1.934	1.105	9.867	0.647	1.692	0.393	3.424	
1.934	1.119	9.838	0.631	1.761	0.567	3.537	3B 132
1.934	1.117	9.839	0.628	1.718	0.764	3.711	
1.934	1.206	9.850	0.568	1.541	0.306	3.276	
1.934	1.208	9.841	0.593	1.637	0.346	3.399	
1.934	1.176	9.853	0.574	1.647	0.425	3.414	
1.934	1.148	9.831	1.604	1.727	0.448	3.543	
1.934	1.174	9.860	0.542	1.615	0.345	3.159	
1.934	1.162	9.836	0.629	1.739	0.774	3.774	
1.934	1.235	9.842	0.612	1.734	0.453	3.570	
1.934	1.134	9.811	0.654	1.645	0.270	3.573	
1.934	1.111	9.825	0.641	1.778	0.647	3.774	3C 129
1.934	1.258	9.718	0.452	1.849	1.963	2.852	
1.934	1.174	9.815	0.649	1.784	0.518	3.783	
1.934	1.144	9.850	0.649	1.883	0.563	3.790	
1.934	1.121	9.831	0.648	1.744	0.534	3.693	
1.934	1.172	9.838	0.656	1.834	0.519	3.731	
1.934	1.233	9.757	0.557	1.611	0.295	3.278	
1.934	1.141	9.849	0.653	1.814	0.745	3.651	
1.934	1.149	9.831	0.651	1.864	0.371	3.553	
1.934	1.135	9.827	0.625	1.736	0.546	3.619	
1.934	1.116	9.852	0.644	1.748	0.441	3.576	3A 010
1.934	1.173	9.818	0.714	1.902	0.466	3.863	
1.934	1.177	9.852	0.583	1.716	0.554	3.382	
1.934	1.178	9.827	0.658	1.814	0.544	3.810	
1.934	1.112	9.843	0.649	1.587	0.306	3.741	
1.934	1.098	9.818	0.535	1.541	0.139	3.172	
1.934	1.178	9.840	0.616	1.818	0.498	3.493	
1.934	1.121	9.844	0.687	1.734	0.544	3.719	
1.934	1.142	9.853	0.629	1.782	0.466	3.435	
1.934	1.119	9.846	0.612	1.776	0.398	3.558	
1.934	1.134	9.838	0.649	1.758	0.433	3.715	3D 101
1.934	1.117	9.833	0.647	1.763	0.436	3.667	
1.934	1.156	9.845	0.675	1.834	0.469	3.632	
1.934	1.118	9.864	0.575	1.682	0.181	3.289	
1.934	1.204	9.858	0.597	1.695	0.442	3.382	
1.934	1.112	9.846	0.619	1.759	0.501	3.499	

GROUP 3

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sm	Mg	Ca	Al	
1.934	1.022	0.967	0.576	1.730	0.502	3.312	
1.934	1.255	0.962	0.563	1.670	0.432	3.360	
1.934	1.616	0.194	0.569	1.551	0.399	3.308	
1.934	1.236	0.727	0.588	1.690	0.275	3.396	
1.934	1.115	0.956	0.630	1.731	0.633	3.748	3C064
1.934	1.051	0.944	0.596	1.719	0.309	3.476	
1.934	1.107	0.962	0.600	1.744	0.329	3.406	
1.934	1.214	0.878	0.575	1.559	0.036	3.100	
1.934	0.958	0.841	0.545	1.453	1.944	3.234	
1.934	1.210	0.827	0.558	1.590	0.203	3.206	
1.934	1.031	0.863	0.568	1.567	0.485	3.382	
1.934	1.100	0.836	0.610	1.754	0.636	3.709	
1.934	1.056	0.858	0.582	1.675	0.388	3.346	
1.934	1.078	0.964	0.595	1.625	0.380	3.462	
1.934	1.054	0.849	0.621	1.694	0.461	3.486	3D080
1.934	1.041	0.845	0.598	1.593	0.365	3.459	
1.934	1.008	0.866	0.542	1.525	0.105	3.288	
1.934	1.135	0.832	0.641	1.818	0.557	3.707	
1.934	1.065	0.844	0.491	1.598	0.189	3.509	
1.934	0.992	0.861	0.552	1.484	0.118	3.361	
1.934	1.084	0.865	0.577	1.653	0.541	3.482	
1.934	1.205	0.861	0.582	1.657	0.413	3.535	
1.934	1.093	0.860	0.587	1.735	0.425	3.498	
1.934	0.952	0.515	0.513	1.442	0.130	3.121	
1.934	1.107	0.857	0.589	1.648	0.362	3.540	3A010
1.934	1.058	0.580	0.548	1.586	0.111	3.260	
1.934	0.922	0.668	0.522	1.492	0.170	3.151	
1.934	1.076	0.858	0.562	1.631	0.243	3.399	
1.934	1.115	0.855	0.581	1.681	0.166	3.459	
1.934	1.086	0.857	0.551	1.584	0.161	3.263	
1.934	1.009	0.921	0.509	1.559	0.362	3.104	
1.934	1.034	0.843	0.539	1.691	0.447	3.324	
1.934	1.055	0.504	0.576	1.712	0.306	3.404	
1.934	0.985	0.915	0.492	1.530	1.931	2.972	
1.934	1.043	0.636	0.548	1.638	0.265	3.239	3B086
1.934	0.914	0.119	0.473	1.415	1.895	2.932	
1.934	0.971	0.866	0.507	1.444	0.112	3.205	
1.934	0.959	0.748	0.517	1.480	0.150	3.108	
1.934	0.975	0.677	0.541	1.533	0.211	3.172	
1.934	1.042	0.581	0.574	1.651	0.202	3.332	
1.934	1.037	0.146	0.526	1.615	0.366	3.297	
1.934	1.062	0.861	0.575	1.648	0.583	3.402	
1.934	1.122	0.944	0.626	1.859	0.664	3.718	
1.934	1.118	0.852	0.603	1.757	0.434	3.598	
1.934	1.099	0.369	0.543	1.624	0.120	3.131	3B161
1.934	1.078	0.709	0.571	1.598	0.522	3.394	
1.934	1.171	0.931	0.602	1.818	0.566	3.864	
1.934	1.066	0.853	0.591	1.671	0.334	3.438	
1.934	1.051	0.934	0.552	1.705	0.185	3.174	
1.934	1.078	0.171	0.581	1.586	0.171	3.269	

GROUP 3

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.934	0.996	0.870	0.569	1.575	0.306	3.334	
1.934	0.954	0.705	0.468	1.402	0.260	3.685	
1.934	1.168	0.859	0.580	1.715	0.387	3.338	
1.934	0.993	0.857	0.553	1.586	0.301	3.167	
1.934	1.275	0.956	0.593	1.611	0.428	3.296	3C042
1.934	1.076	0.850	0.589	1.650	0.306	3.415	
1.934	1.181	0.952	0.578	1.630	0.416	3.402	
1.934	0.997	0.868	0.538	1.499	0.365	3.134	
1.934	0.978	0.864	0.544	1.544	0.187	3.271	
1.934	1.144	0.968	0.603	1.766	0.496	3.501	
1.934	1.173	0.861	0.559	1.698	0.162	3.328	
1.934	1.125	0.847	0.611	1.735	0.363	3.540	
1.934	1.273	0.861	0.574	1.692	0.398	3.462	
1.934	1.084	0.851	0.588	1.692	0.196	3.378	
1.934	1.174	0.828	0.657	1.850	0.544	3.824	3A010
1.934	1.112	0.855	0.592	1.718	0.513	3.544	
1.934	0.952	0.578	0.574	1.492	0.260	3.049	
1.934	0.950	0.864	0.552	1.567	0.419	3.194	
1.934	1.095	0.811	0.534	1.603	0.307	3.145	
1.934	1.112	0.934	0.615	1.713	0.399	3.513	
1.934	1.042	0.867	0.551	1.569	0.098	3.342	
1.934	1.076	0.856	0.576	1.667	0.530	3.453	
1.934	1.094	0.862	0.590	1.638	0.357	3.615	
1.934	1.087	0.868	0.566	1.555	0.294	3.417	
1.934	0.944	0.547	0.514	1.351	0.415	3.265	3D123
1.934	1.171	0.858	0.588	1.698	0.391	3.504	
1.934	1.091	0.840	0.598	1.681	0.254	3.430	
1.934	1.143	0.859	0.581	1.671	0.346	3.544	
1.934	1.074	0.857	0.567	1.625	0.388	3.336	
1.934	1.113	0.859	0.564	1.612	0.211	3.337	
1.934	1.117	0.854	0.581	1.592	0.311	3.342	
1.934	1.287	0.843	0.597	1.731	0.586	3.542	
1.934	0.977	0.851	0.577	1.724	0.527	3.453	
1.934	1.210	0.869	0.537	1.626	0.296	3.197	
1.934	1.047	0.868	0.574	1.659	0.508	3.463	3C101
1.934	1.071	0.861	0.576	1.697	0.457	3.324	
1.934	1.078	0.846	0.597	1.658	0.405	3.558	
1.934	0.995	0.861	0.559	1.544	0.268	3.183	
1.934	1.130	0.859	0.611	1.690	0.451	3.585	
1.934	1.045	0.856	0.585	1.653	0.363	3.449	
1.934	1.113	0.856	0.605	1.778	0.568	3.393	
1.934	1.115	0.837	0.676	1.776	0.639	3.826	
1.934	0.938	0.861	0.534	1.701	0.491	3.562	
1.934	1.091	0.855	0.586	1.654	0.489	3.559	
1.934	1.059	0.861	0.553	1.618	0.437	3.886	
1.934	1.059	0.868	0.566	1.656	0.391	3.391	3D167
1.934	1.011	0.854	0.559	1.591	0.115	3.632	
1.934	1.116	0.869	0.614	1.674	0.551	3.574	
1.934	1.036	0.857	0.572	1.662	0.151	3.774	
1.934	1.109	0.863	0.593	1.690	0.351	3.376	

Group 3

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.934	1.091	0.864	0.584	1.703	0.486	3.488	
1.934	1.075	0.178	0.512	1.576	0.038	0.980	
1.934	1.035	0.968	0.580	1.698	0.512	3.503	
1.934	1.081	0.814	0.539	1.576	0.048	3.266	
1.934	1.085	0.866	0.536	1.100	1.651	3.113	3A010
1.934	0.987	0.856	0.548	1.091	1.913	3.146	
1.934	1.091	0.858	0.576	1.598	0.361	3.386	
1.934	1.093	0.966	0.551	1.567	0.150	3.328	
1.934	1.091	0.961	0.587	1.633	0.057	3.488	
1.935	1.179	0.939	0.616	1.734	0.399	3.564	
1.934	1.076	0.857	0.579	1.785	0.535	3.517	
1.934	1.085	0.854	0.618	1.736	0.531	3.711	
1.934	1.040	0.849	0.566	1.694	0.661	3.345	
1.934	1.067	0.906	0.561	1.658	0.327	3.384	
1.934	1.076	0.866	0.569	1.703	0.074	3.433	3A120
1.935	1.068	0.870	0.555	1.663	0.439	3.310	
1.934	1.100	0.788	0.593	1.754	0.336	3.454	
1.935	1.096	0.790	0.536	1.564	0.817	3.196	
1.934	1.057	0.853	0.585	1.641	0.341	3.393	
1.935	1.025	0.626	0.541	1.519	0.158	3.177	
1.935	1.115	0.717	0.528	1.539	0.321	3.256	
1.935	1.117	0.761	0.594	1.748	0.788	3.513	
1.934	1.062	0.494	0.514	1.469	0.198	3.105	
1.934	1.119	0.894	0.558	1.615	0.197	3.232	
1.935	1.064	0.857	0.575	1.568	0.188	3.447	3A034
1.935	1.118	0.861	0.618	1.803	0.350	3.376	
1.934	1.039	0.175	0.569	1.569	0.263	3.310	
1.934	1.099	0.862	0.575	1.752	0.234	3.367	
1.934	1.016	0.402	0.545	1.582	0.079	3.108	
1.934	1.063	0.864	0.572	1.659	0.169	3.205	
1.934	1.067	0.868	0.574	1.675	0.705	3.499	
1.935	1.091	0.360	0.587	1.716	0.695	3.536	
1.935	1.157	0.968	0.635	1.853	0.763	3.696	
1.934	1.035	0.780	0.547	1.615	0.399	3.513	
1.935	1.051	0.631	0.548	1.574	0.488	3.247	3A101
1.935	1.109	0.853	0.605	1.665	0.758	3.686	
1.934	1.116	0.837	0.619	1.757	0.345	3.539	
1.934	1.078	0.976	0.517	1.464	0.183	3.104	
1.934	1.105	0.857	0.614	1.747	0.453	3.514	
1.935	1.138	0.871	0.545	1.605	0.168	3.337	
1.935	1.122	0.937	0.642	1.832	0.744	3.592	
1.935	1.064	0.869	0.578	1.693	0.559	3.446	
1.935	1.076	0.969	0.571	1.691	0.389	3.353	
1.934	1.120	0.844	0.583	1.756	0.484	3.587	3A010
1.935	1.115	0.857	0.595	1.776	0.466	3.534	
1.935	1.078	0.880	0.547	1.686	0.245	3.383	
1.934	1.088	0.758	0.556	1.594	0.172	3.484	
1.935	1.117	0.851	0.576	1.678	0.350	3.533	
1.934	1.120	0.871	0.577	1.694	0.393	3.594	

Group 3

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.935	1.046	0.971	0.561	1.704	0.195	3.169	
1.935	1.024	0.967	0.562	1.686	0.213	3.196	
1.935	1.048	0.992	0.561	1.660	0.454	3.230	
1.935	1.078	0.965	0.576	1.692	0.510	3.399	
1.935	1.143	0.960	0.606	1.698	0.508	3.589	3A075
1.935	1.093	0.961	0.529	1.678	0.382	3.493	
1.935	1.094	0.748	0.554	1.753	0.365	3.431	
1.935	1.021	0.658	0.595	1.773	0.339	3.371	
1.935	1.131	0.968	0.615	1.826	0.359	3.428	
1.935	1.120	0.871	0.615	1.836	0.638	3.675	
1.935	1.175	0.969	0.609	1.775	0.698	3.640	
1.935	1.241	0.978	0.551	1.674	0.334	3.285	
1.935	1.068	0.664	0.575	1.745	0.399	3.342	
1.935	1.116	0.870	0.585	1.740	0.562	3.534	3B078
1.935	0.967	0.914	0.496	1.374	0.106	3.130	
1.935	1.054	0.978	0.559	1.663	0.399	3.341	
1.935	0.965	0.826	0.498	1.570	1.968	3.638	
1.935	1.063	0.748	0.541	1.542	0.198	3.386	
1.935	1.060	0.856	0.503	1.546	0.477	3.541	
1.935	0.919	0.694	0.515	1.479	0.182	3.115	
1.935	1.101	0.970	0.563	1.663	0.443	3.485	
1.935	1.170	0.969	0.598	1.696	0.509	3.499	
1.935	1.071	0.870	0.584	1.718	0.524	3.466	
1.935	1.211	0.868	0.592	1.758	0.542	3.583	
1.935	1.245	0.144	0.548	1.628	0.399	3.389	3B 009
1.935	1.213	0.976	0.604	1.652	0.623	3.583	
1.935	1.168	0.958	0.658	1.664	0.748	3.724	
1.935	1.134	0.966	0.595	1.804	0.449	3.356	
1.935	1.148	0.959	0.612	1.737	0.488	3.615	
1.935	1.110	0.878	0.596	1.636	0.553	3.443	
1.935	1.184	0.965	0.574	1.726	0.415	3.488	
1.935	1.117	0.968	0.585	1.684	0.552	3.482	
1.935	1.151	0.948	0.625	1.828	0.606	3.674	
1.935	1.149	0.946	0.639	1.824	0.522	3.693	
1.935	1.204	0.958	0.595	1.696	0.479	3.529	3A010
1.935	1.179	0.957	0.614	1.770	0.538	3.754	
1.935	1.126	0.961	0.530	1.754	0.413	3.409	
1.935	1.157	0.946	0.631	1.758	0.465	3.519	
1.935	1.148	0.961	0.628	1.774	0.548	3.466	
1.935	1.155	0.955	0.614	1.754	0.359	3.536	
1.935	1.188	0.947	0.613	1.776	0.736	3.633	
1.935	1.153	0.946	0.642	1.774	0.581	3.532	
1.935	1.158	0.959	0.591	1.696	0.570	3.589	
1.935	1.263	0.948	0.587	1.498	0.250	3.673	
1.935	1.134	0.952	0.605	1.745	0.614	3.585	3D047
1.935	1.159	0.946	0.634	1.789	0.466	3.717	
1.935	1.038	0.816	0.552	1.556	0.295	3.304	
1.935	1.214	0.934	0.629	1.841	0.431	3.983	
1.935	1.191	0.946	0.641	1.736	0.536	3.687	
1.935	1.139	0.940	0.624	1.768	0.319	3.564	

P 1

GROUP 3

Kidd Creek Mines Ltd.
B-2002. Timmins. Ontario P4N 7K1

3A 010

Time	Zn	Fe	Sn	Mg	Cu	Sl
1.935	1.128	9.864	0.599	1.758	0.423	3.536
1.935	1.122	9.864	0.593	1.718	0.397	3.416
1.935	1.158	9.863	0.611	1.801	0.486	3.475
1.935	1.142	9.844	0.625	1.747	0.536	3.659
1.935	1.166	9.851	0.616	1.766	0.408	3.768
1.935	1.152	9.857	0.612	1.784	0.284	3.396
1.935	1.143	9.859	0.608	1.741	0.619	3.521
1.935	1.161	9.852	0.638	1.769	0.453	3.697
1.935	1.196	9.848	0.643	1.772	0.439	3.673
1.935	1.169	9.844	0.616	1.656	0.376	3.589

GROUP 4

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.916	1.137	5.215	1.227	2.565	3.342	3.81[illegible]	
1.916	1.092	4.887	1.161	2.464	3.415	3.7[illegible]	
1.916	1.085	4.878	1.158	2.446	3.523	3.561	
1.916	1.129	5.591	1.267	2.581	3.448	3.85[illegible]	
1.916	1.130	5.184	1.259	2.474	3.181	3.753	
1.916	1.148	5.439	1.256	2.563	3.291	3.79[illegible]	4A012
1.916	1.102	4.908	1.164	2.392	3.036	3.550	
1.916	1.056	4.448	1.121	2.350	2.987	3.328	
1.916	1.153	5.541	1.330	2.565	3.188	3.922	
1.916	1.158	5.844	1.321	2.522	3.093	3.779	
1.916	1.117	5.263	1.225	2.482	3.354	3.796	
1.916	1.101	5.134	1.211	2.367	3.100	3.715	
1.916	1.100	5.385	1.212	2.411	3.149	3.586	
1.916	1.124	5.165	1.204	2.418	3.314	3.690	
1.916	1.150	5.288	1.250	2.429	3.145	3.593	
1.916	1.107	5.462	1.228	2.449	3.156	3.729	4D030
1.916	1.001	4.652	1.086	2.216	2.739	3.069	
1.916	1.019	4.894	1.128	2.146	2.634	3.446	
1.916	1.149	5.712	1.325	2.388	2.982	3.648	
1.916	1.108	5.222	1.192	2.336	2.864	3.636	
1.916	1.061	4.562	1.107	2.396	3.206	3.490	
1.916	1.084	5.189	1.203	2.426	3.151	3.461	
1.916	1.034	5.046	1.160	2.302	2.932	3.611	
1.916	1.074	5.134	1.198	2.330	2.614	3.468	
1.916	1.143	5.657	1.306	2.516	3.221	3.775	
1.916	1.135	5.843	1.338	2.512	2.897	3.689	4B129
1.916	1.041	4.820	1.161	2.215	2.864	3.484	
1.916	1.032	5.112	1.181	2.302	2.772	3.383	
1.916	1.156	5.657	1.300	2.426	3.084	3.816	
1.916	1.034	5.422	1.254	2.303	2.691	3.587	
1.916	1.280	4.444	1.120	2.358	3.066	3.399	
1.916	1.062	4.317	1.117	2.251	2.775	3.331	
1.916	1.062	5.035	1.174	2.340	2.742	3.356	
1.916	1.102	5.376	1.210	2.480	3.107	3.766	
1.916	1.144	6.044	1.366	2.532	3.183	3.557	
1.916	1.153	5.777	1.348	2.531	3.044	3.566	4C-129
1.916	1.066	5.083	1.211	2.213	2.852	3.689	
1.920	1.089	5.178	1.231	2.299	2.613	3.442	
1.920	1.160	5.749	1.356	2.439	2.975	3.611	
1.920	1.171	6.138	1.359	2.572	3.276	3.964	

GROUP 4

TIME	Zn	Fe	Sn	Mg	Cu	Al	
1.92[illegible]	1.107	5.048	1.221	2.542	3.285	3.603	
1.919	1.122	5.308	1.296	2.589	3.139	3.628	
1.92[illegible]	1.241	4.785	1.159	2.334	2.736	3.338	
1.92[illegible]	1.139	5.171	1.231	2.586	3.150	3.634	
1.92[illegible]	1.142	5.784	1.363	2.692	3.186	3.613	
1.928	1.[illegible]76	4.145	1.089	2.160	2.614	3.232	4A012
1.92[illegible]	1.033	5.346	1.204	2.426	2.787	3.435	
1.919	1.048	4.942	1.232	2.213	2.587	3.252	
1.92[illegible]	1.178	5.563	1.278	2.466	3.039	3.842	
1.919	1.136	5.699	1.322	2.526	2.681	3.428	
1.919	1.[illegible]55	4.561	1.135	2.352	3.136	3.522	
1.919	1.[illegible]02	4.451	1.298	2.351	3.064	3.232	
1.92[illegible]	1.135	5.276	1.254	2.524	3.186	3.680	
1.92[illegible]	1.[illegible]41	4.924	1.177	2.293	2.612	3.388	
1.919	1.[illegible]93	4.782	1.188	2.332	3.[illegible]30	3.435	
1.919	1.[illegible]92	5.[illegible]33	1.165	2.415	2.93[illegible]	3.496	4C079
1.92[illegible]	1.146	5.734	1.291	2.575	2.866	3.469	
1.92[illegible]	[illegible].967	4.[illegible]73	1.[illegible]28	2.[illegible]10	2.[illegible]67	3.[illegible]76	
1.92[illegible]	1.139	5.658	1.280	2.578	3.149	3.612	
1.928	1.[illegible]98	4.856	1.195	2.324	2.635	3.313	
1.92[illegible]	1.[illegible]63	4.485	1.131	2.425	3.268	3.354	
1.92[illegible]	1.141	5.609	1.312	2.581	3.180	3.725	
1.92[illegible]	1.1[illegible]1	4.943	1.187	2.485	2.863	3.355	
1.92[illegible]	1.131	5.325	1.272	2.405	3.246	3.815	
1.92[illegible]	1.149	5.[illegible]34	1.29[illegible]	2.469	3.152	3.611	
1.92[illegible]	1.1[illegible]4	5.551	1.3[illegible]9	2.511	3.[illegible]50	3.[illegible]55	4A012
1.92[illegible]	1.132	5.[illegible]70	1.[illegible]31	2.511	2.[illegible]90	3.[illegible]08	
1.92[illegible]	1.112	5.[illegible]29	1.[illegible]40	2.465	3.[illegible]14	3.339	
1.92[illegible]	1.[illegible]45	4.912	1.[illegible]19	2.[illegible]28	2.762	3.613	
1.92[illegible]	1.[illegible]38	4.[illegible]28	1.[illegible]91	2.287	2.464	3.[illegible]92	
1.92[illegible]	1.[illegible]94	4.[illegible]57	1.176	2.[illegible]32	2.[illegible]60	3.[illegible]55	
1.919	1.11[illegible]	5.[illegible]30	1.28[illegible]	2.455	2.918	3.412	
1.92[illegible]	1.[illegible]62	4.794	1.12[illegible]	2.343	3.[illegible]37	3.482	
1.92[illegible]	1.[illegible]54	4.766	1.187	2.359	2.673	3.[illegible]91	
1.919	1.183	5.[illegible]10	1.[illegible]34	2.439	2.[illegible]95	3.471	
1.919	1.[illegible]93	4.[illegible]82	1.196	2.371	2.869	3.537	4C101
1.919	1.169	5.399	1.[illegible]30	2.474	2.[illegible]89	3.442	
1.919	1.117	5.[illegible]31	1.[illegible]59	2.454	3.171	3.873	
1.919	1.[illegible]41	5.[illegible]43	1.[illegible]95	2.[illegible]57	2.[illegible]69	3.518	
1.92[illegible]	1.[illegible]19	4.[illegible]87	1.[illegible]10	2.197	2.[illegible]17	3.[illegible]26	

GROUP 4

TIME	Zn	Fe	Sn	Mg	Cu	Al	
1.919	1.170	4.657	1.248	2.356	3.111	3.445	
1.922	1.081	4.448	1.156	2.329	2.955	3.265	
1.919	1.194	5.898	1.375	2.648	3.492	3.935	
1.92.	1.222	4.889	1.148	2.171	2.868	3.512	
1.922	1.188	4.832	1.219	2.373	2.974	3.321	
1.924	1.215	4.945	1.137	2.138	2.525	3.092	4A012
1.92.	1.115	5.267	1.246	2.439	2.968	3.314	
1.919	1.134	5.648	1.254	2.507	2.951	3.520	
1.92.	1.161	5.776	1.382	2.572	2.902	3.636	
1.921	1.252	5.399	1.259	2.266	2.790	3.512	
1.919	1.156	5.395	1.282	2.515	3.257	3.851	
1.924	1.116	5.303	1.238	2.528	3.325	3.759	
1.922	1.126	5.571	1.258	2.552	3.298	3.836	
1.919	1.061	5.178	1.218	2.355	2.707	3.434	
1.920	1.127	4.875	1.195	2.384	3.023	3.442	
1.924	1.071	4.584	1.138	2.298	2.886	3.378	4B 163
1.924	1.043	4.924	1.189	2.211	2.895	3.529	
1.919	0.958	4.533	1.062	2.173	2.252	2.986	
1.919	1.142	5.894	1.346	2.468	3.225	4.020	
1.922	1.018	4.915	1.197	2.134	2.692	3.416	
1.919	1.071	4.478	1.202	2.378	2.943	3.485	
1.924	0.963	3.666	0.960	2.078	2.536	3.111	
1.919	1.120	5.156	1.244	2.479	3.133	3.643	
1.919	1.123	5.654	1.331	2.520	2.991	3.749	
1.919	1.114	5.114	1.245	2.425	2.922	3.528	
1.924	1.148	5.065	1.254	2.394	3.042	3.561	4A 148
1.921	1.162	5.503	1.338	2.495	3.246	3.687	
1.924	1.134	5.456	1.275	2.545	2.914	3.647	
1.924	1.140	5.552	1.319	2.513	2.942	3.769	
1.919	1.173	5.826	1.354	2.573	3.266	3.858	

4C 106
MISSING

GROUP 4

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.919	1.[illegible]67	4.[illegible]28	1.149	2.[illegible]41	2.[illegible]978	3.[illegible]95	
1.919	1.[illegible]49	5.[illegible]17	1.[illegible]259	2.[illegible]436	3.165	3.631	
1.928	1.[illegible]45	4.[illegible]43	1.[illegible]32	2.[illegible]294	2.751	3.353	
1.919	1.[illegible]19	4.[illegible]38	1.151	2.[illegible]286	2.[illegible]502	3.384	
1.919	1.[illegible]05	5.[illegible]14	1.[illegible]102	2.[illegible]520	2.811	3.387	
1.919	1.[illegible]42	5.[illegible]374	1.[illegible]268	2.[illegible]570	3.[illegible]43	3.741	4A012
1.919	1.[illegible]24	5.[illegible]175	1.174	2.[illegible]351	2.[illegible]570	3.[illegible]38	
1.919	2.[illegible]953	4.[illegible]681	1.[illegible]054	2.[illegible]194	2.349	3.[illegible]247	
1.919	1.[illegible]067	4.[illegible]581	1.[illegible]160	2.[illegible]285	2.[illegible]846	3.455	
1.928	2.[illegible]918	3.967	2.984	1.991	2.349	3.[illegible]62	

1.919	1.[illegible]23	4.443	1.144	2.[illegible]234	2.454	3.[illegible]64	
1.919	1.114	5.[illegible]14	1.[illegible]13	2.[illegible]576	3.137	3.668	
1.919	2.[illegible]943	4.[illegible]354	1.[illegible]045	2.164	2.541	3.[illegible]278	
1.919	1.[illegible]092	4.[illegible]418	1.[illegible]054	2.168	2.[illegible]602	3.199	
1.919	1.[illegible]113	5.514	1.[illegible]069	2.489	2.[illegible]942	3.[illegible]598	
1.919	2.[illegible]949	4.116	1.[illegible]035	2.[illegible]436	2.[illegible]554	3.193	4A109
1.919	1.[illegible]134	4.[illegible]589	1.130	2.[illegible]279	2.[illegible]526	3.[illegible]242	
1.919	1.[illegible]175	4.[illegible]671	1.157	2.[illegible]428	3.[illegible]14	3.[illegible]466	
1.919	1.[illegible]165	5.[illegible]067	1.[illegible]241	2.376	3.165	3.[illegible]653	
1.919	1.[illegible]227	4.[illegible]217	1.[illegible]165	2.[illegible]241	2.[illegible]496	3.[illegible]205	

1.919	1.[illegible]93	5.[illegible]254	1.181	2.[illegible]488	2.[illegible]919	3.[illegible]533	
1.919	1.[illegible]076	4.[illegible]952	1.[illegible]200	2.[illegible]387	2.[illegible]358	3.[illegible]568	
1.919	1.[illegible]213	4.[illegible]576	1.[illegible]104	2.[illegible]221	2.[illegible][illegible]96	3.[illegible]376	
1.919	1.[illegible]044	4.[illegible]659	1.113	2.[illegible]434	2.[illegible]951	3.[illegible]411	
1.919	1.[illegible]118	4.[illegible]642	1.[illegible]135	2.[illegible]176	2.[illegible]654	3.[illegible]332	
1.919	1.[illegible]289	5.[illegible]264	1.[illegible]287	2.[illegible]286	2.[illegible]650	3.595	4B101
1.919	1.[illegible]211	4.[illegible]784	1.[illegible]125	2.[illegible]172	2.[illegible]415	3.[illegible]254	
1.919	1.[illegible]264	4.[illegible]758	1.[illegible]187	2.[illegible]227	2.[illegible]576	3.[illegible]377	
1.919	1.[illegible]184	5.[illegible]185	1.[illegible]235	2.[illegible]415	2.[illegible]875	3.[illegible]597	
1.919	1.[illegible]31	5.[illegible]275	1.[illegible]237	2.[illegible]348	2.[illegible]962	3.[illegible]516	

1.919	0.[illegible]966	4.[illegible]284	1.[illegible]121	2.[illegible]105	2.[illegible]553	3.147	
1.919	1.[illegible]22	5.[illegible]125	1.192	2.[illegible]344	3.[illegible]678	3.[illegible]595	
1.919	1.[illegible]175	4.[illegible]553	1.[illegible]155	2.[illegible]136	2.[illegible]732	3.[illegible]371	
1.919	0.[illegible]999	4.449	1.[illegible]105	2.154	2.[illegible]669	3.[illegible]237	
1.919	1.[illegible]091	5.[illegible]169	1.181	2.[illegible]334	2.[illegible]984	3.[illegible]648	
1.919	0.[illegible]972	4.[illegible]775	1.[illegible]137	2.[illegible]838	2.[illegible]606	3.[illegible]824	4D104
1.919	1.[illegible]001	4.[illegible]526	1.[illegible]097	2.170	2.[illegible]571	3.[illegible]213	
1.919	1.145	5.[illegible]175	1.[illegible]194	2.[illegible]582	3.126	3.759	
1.919	1.[illegible]183	5.[illegible]242	1.[illegible]241	2.[illegible]345	3.[illegible]714	3.[illegible]607	
1.919	1.033	5.[illegible]229	1.[illegible]187	2.[illegible]181	2.[illegible]646	3.[illegible]352	

GROUP 4

Time	Zn	Fe	Si	Mg	Cu	Al	
1.919	1.145	5.284	1.272	2.563	2.977	3.582	
1.919	1.115	5.159	1.256	2.456	3.113	3.692	
1.919	1.[illegible]1[illegible]	4.728	1.113	2.282	2.736	3.315	
1.919	1.[illegible]02	4.927	1.181	2.493	3.068	3.446	
1.919	1.[illegible]57	4.054	1.118	2.394	2.684	3.235	
1.919	1.182	5.393	1.283	2.434	3.152	3.876	4A012
1.919	1.[illegible]09	4.788	1.138	2.192	2.493	3.384	
1.919	1.[illegible]31	5.117	1.181	2.344	2.538	3.416	
1.919	1.151	5.[illegible]98	1.[illegible]70	2.55[illegible]	2.850	3.683	
1.919	1.[illegible]20	4.747	1.140	2.153	2.567	3.573	

1.919	1.183	4.883	1.186	2.482	2.929	3.591	
1.919	1.[illegible]92	4.473	1.134	2.363	3.243	3.553	
1.919	[illegible].955	3.884	1.[illegible]07	2.[illegible]75	2.941	3.213	
1.919	1.[illegible]64	4.338	1.138	2.321	2.650	3.340	
1.919	1.115	5.[illegible]52	1.203	2.472	2.865	3.516	4B008
1.919	1.111	4.958	1.228	2.343	2.952	3.579	
1.919	1.[illegible]17	4.760	1.148	2.349	2.766	3.414	
1.919	1.[illegible]21	4.838	1.152	2.256	2.468	3.338	
1.919	1.[illegible]86	4.575	1.148	2.284	2.783	3.366	
1.919	1.[illegible]17	5.[illegible]19	1.147	2.328	2.641	3.356	

1.919	1.[illegible]68	4.271	1.174	2.366	2.949	3.479	
1.919	1.[illegible]24	4.874	1.182	2.341	3.[illegible]23	3.615	
1.919	[illegible].939	4.416	1.[illegible]66	2.264	2.455	3.173	
1.919	[illegible].925	3.999	1.[illegible]28	2.[illegible]36	2.640	3.138	
1.919	1.[illegible]57	5.116	1.168	2.383	2.671	3.360	4C163
1.919	1.[illegible]94	5.[illegible]81	1.229	2.307	3.048	3.590	
1.919	1.[illegible]69	5.182	1.211	2.332	2.823	3.486	
1.919	1.[illegible]47	4.737	1.132	2.158	2.736	3.288	
1.919	1.136	5.464	1.283	2.498	2.[illegible]27	3.714	
1.919	1.[illegible]17	4.896	1.153	2.191	2.339	3.245	

1.919	1.[illegible]95	5.[illegible]02	1.[illegible]91	2.446	3.[illegible]14	3.594	
1.919	1.1[illegible]5	4.[illegible]71	1.184	2.4[illegible]7	3.[illegible]81	3.483	
1.919	1.[illegible]76	4.[illegible]87	1.118	2.3[illegible]0	3.[illegible]75	3.456	
1.919	[illegible].971	4.[illegible]89	1.[illegible]79	2.[illegible]68	2.648	3.138	
1.919	1.[illegible]64	4.[illegible]87	1.[illegible]00	2.311	2.[illegible]66	3.[illegible]94	4A080
1.919	1.[illegible]96	5.[illegible]71	1.[illegible]87	2.337	2.[illegible]75	3.519	
1.919	[illegible].994	4.[illegible]56	1.[illegible]95	2.[illegible]31	2.[illegible]40	3.[illegible]81	
1.919	[illegible].[illegible]99	4.[illegible]02	1.[illegible]95	2.[illegible]33	2.[illegible]89	3.[illegible]47	
1.919	1.[illegible]51	4.[illegible]94	1.[illegible]79	2.[illegible]15	2.[illegible]33	3.511	
1.919	1.[illegible]34	4.[illegible]34	1.[illegible]27	2.[illegible]11	2.[illegible]52	3.[illegible]87	

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.919	1.[illegible]07	4.747	1.144	2.525	2.704	3.344	
1.919	1.[illegible]78	5.[illegible]04	1.[illegible]71	2.512	2.974	3.592	
1.919	2.[illegible]59	4.[illegible]54	1.[illegible]96	2.181	2.417	3.[illegible]23	
1.919	1.[illegible]38	4.781	1.151	2.307	2.767	3.367	
1.919	1.169	5.[illegible]67	1.[illegible]33	2.[illegible]22	2.928	3.399	4A012
1.919	1.[illegible]91	4.[illegible]73	1.102	2.[illegible]65	2.[illegible]04	3.[illegible]89	
1.919	1.[illegible]75	4.995	1.[illegible]82	2.363	3.[illegible]14	3.[illegible]08	
1.919	2.[illegible]56	4.[illegible]13	1.[illegible]90	2.[illegible]04	2.491	3.[illegible]80	
1.919	1.[illegible]43	4.[illegible]82	1.179	2.338	2.562	3.351	
1.919	1.168	6.[illegible]62	1.385	2.598	2.904	3.665	

1.919	1.[illegible]75	4.[illegible]85	1.218	2.456	3.[illegible]25	3.[illegible]30	
1.919	1.[illegible]23	5.[illegible]91	1.[illegible]84	2.[illegible]89	3.[illegible]12	3.704	
1.919	1.[illegible]28	5.[illegible]65	1.[illegible]47	2.464	2.987	3.532	
1.919	1.[illegible]20	5.[illegible]59	1.[illegible]37	2.[illegible]03	3.[illegible]70	3.[illegible]29	
1.919	1.119	5.[illegible]10	1.[illegible]27	2.[illegible]49	3.164	3.[illegible]37	
1.919	1.[illegible]58	4.[illegible]33	1.[illegible]47	2.[illegible]64	2.[illegible]63	3.[illegible]18	4B042
1.919	1.[illegible]31	4.[illegible]94	1.[illegible]18	2.[illegible]59	3.[illegible]22	3.[illegible]24	
1.919	1.[illegible]22	4.[illegible]26	1.[illegible]58	2.[illegible]94	2.[illegible]82	3.[illegible]21	
1.919	1.[illegible]01	4.[illegible]47	1.[illegible]40	2.[illegible]26	2.[illegible]17	3.[illegible]32	
1.919	1.[illegible]55	4.[illegible]36	1.[illegible]04	2.[illegible]31	2.[illegible]06	3.[illegible]82	

1.919	1.[illegible]70	1.[illegible]88	4.[illegible]64	1.116	1.[illegible]01	1.659	
1.919	2.[illegible]18	4.635	1.115	2.[illegible]66	2.[illegible]78	3.[illegible]07	
1.919	2.[illegible]25	4.[illegible]84	1.[illegible]62	2.[illegible]50	2.729	3.[illegible]63	
1.919	2.[illegible]31	4.[illegible]25	1.[illegible]38	2.[illegible]70	2.[illegible]56	3.[illegible]48	
1.919	1.[illegible]96	4.[illegible]13	1.141	2.[illegible]21	2.[illegible]76	3.[illegible]47	4A042
1.919	1.[illegible]25	5.[illegible]20	1.[illegible]44	2.[illegible]03	2.915	3.[illegible]75	
1.919	1.[illegible]52	4.[illegible]66	1.[illegible]08	2.[illegible]37	2.691	3.[illegible]63	
1.919	1.[illegible]74	4.[illegible]45	1.[illegible]63	2.[illegible]80	2.[illegible]13	3.[illegible]39	
1.919	1.[illegible]16	4.663	1.[illegible]58	2.[illegible]36	2.[illegible]52	3.[illegible]92	
1.919	1.[illegible]68	5.[illegible]50	1.324	2.548	2.782	3.599	

1.919	1.[illegible]29	5.[illegible]05	1.[illegible]38	2.443	3.[illegible]46	3.569	
1.919	2.[illegible]41	3.[illegible]99	1.[illegible]98	2.[illegible]75	2.449	3.[illegible]59	
1.919	1.[illegible]16	4.[illegible]77	1.136	2.184	2.624	3.[illegible]98	
1.919	2.[illegible]74	4.[illegible]74	1.[illegible]75	2.[illegible]76	2.444	3.[illegible]51	
1.919	1.148	5.[illegible]67	1.[illegible]92	2.[illegible]58	3.[illegible]67	3.745	4D070
1.919	1.118	5.[illegible]89	1.[illegible]74	2.[illegible]36	3.[illegible]19	3.540	
1.919	1.[illegible]34	4.[illegible]16	1.135	2.169	2.553	3.332	
1.919	0.[illegible]89	4.[illegible]79	1.[illegible]89	2.141	2.504	3.243	
1.919	2.[illegible]41	4.[illegible]47	2.[illegible]22	2.[illegible]76	2.[illegible]58	2.956	
1.919	1.[illegible]75	5.[illegible]13	1.[illegible]04	2.[illegible]31	2.[illegible]67	3.[illegible]33	

GROUP 4

Time	Zn	Fe	Sm	Mg	Cu	Al	
1.919	1.112	4.073	1.238	2.454	2.860	3.412	
1.919	1.077	4.554	1.155	2.303	2.992	3.487	
1.919	1.014	4.074	1.128	2.247	2.566	3.328	
1.919	0.981	4.495	1.089	2.207	2.512	3.230	
1.919	1.131	5.618	1.292	2.516	2.873	3.613	
1.919	1.022	4.469	1.084	2.120	2.616	3.111	4A012
1.919	1.058	4.993	1.109	2.303	2.725	3.483	
1.919	0.963	4.233	1.055	2.103	2.459	3.078	
1.919	1.037	4.728	1.175	2.214	2.324	3.351	
1.919	1.282	6.211	1.399	2.606	2.927	3.783	

1.919	0.999	4.868	1.089	2.285	2.919	3.393	
1.919	1.036	4.554	1.114	2.282	2.845	3.399	
1.919	0.942	4.158	1.086	2.092	2.375	3.087	
1.919	0.996	4.485	1.062	2.298	2.607	3.251	
1.919	1.098	5.311	1.191	2.425	2.833	3.473	
1.919	1.049	4.694	1.114	2.221	2.764	3.332	4D056
1.919	1.016	4.645	1.162	2.185	2.533	3.243	
1.919	0.978	4.924	1.090	2.312	2.646	3.319	
1.919	1.186	5.428	1.288	2.498	2.570	3.454	
1.919	1.250	5.452	1.243	2.336	2.744	3.587	

1.919	1.081	4.733	1.128	2.344	3.049	3.455	
1.919	1.058	4.658	1.103	2.302	2.814	3.363	
1.919	1.074	4.565	1.068	2.249	2.788	3.356	
1.919	1.167	5.093	1.178	2.375	3.352	3.543	
1.919	1.121	5.337	1.226	2.453	2.956	3.588	
1.919	1.059	4.891	1.118	1.991	2.321	3.215	4D131
1.919	1.014	4.486	1.095	2.193	2.587	3.297	
1.919	1.096	5.357	1.217	2.406	2.952	3.535	
1.919	0.954	4.348	1.019	2.139	2.338	3.097	
1.919	1.159	5.349	1.240	2.453	2.782	3.443	

1.919	1.077	4.558	1.143	2.354	2.919	3.487	
1.919	1.070	5.210	1.170	2.454	2.961	3.591	
1.919	0.999	4.498	1.052	2.233	2.654	3.339	
1.919	1.081	4.547	1.087	2.249	2.763	3.376	
1.919	1.127	5.431	1.163	2.384	3.094	3.628	
1.919	1.077	4.465	1.117	2.119	2.751	3.354	4C042
1.919	1.041	4.755	1.141	2.349	2.442	3.257	
1.919	0.934	4.194	1.053	2.184	2.295	2.986	
1.919	1.119	5.641	1.247	2.414	2.789	3.589	
1.919	1.127	5.374	1.238	2.457	3.151	3.516	

GROUP 4

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.919	1.[illegible]	4.[illegible]	1.[illegible]	2.414	2.778	3.337	
1.919	[illegible]	4.[illegible]	1.[illegible]	2.[illegible]	2.519	3.184	
1.919	[illegible]	3.[illegible]	[illegible]	2.[illegible]	2.[illegible]	2.[illegible]	
1.919	[illegible]	4.[illegible]	[illegible]	2.121	2.342	2.985	
1.919	1.[illegible]	4.[illegible]	1.165	2.351	2.634	3.191	
1.919	1.184	5.156	1.235	2.482	2.872	3.572	4A012
1.919	1.165	5.[illegible]	1.[illegible]	2.[illegible]	2.685	3.[illegible]	
1.919	1.[illegible]	4.323	1.168	2.399	2.835	3.316	
1.919	1.188	5.189	1.[illegible]	2.497	2.696	3.399	
1.919	1.[illegible]	5.185	1.178	2.392	2.696	3.399	
1.919	1.[illegible]	4.956	1.187	2.396	2.936	3.543	
1.919	1.[illegible]	5.[illegible]	1.[illegible]	2.[illegible]	2.991	3.553	
1.919	1.[illegible]	4.484	1.[illegible]	2.[illegible]	2.831	3.322	
1.919	1.[illegible]	4.[illegible]	1.[illegible]	2.164	2.594	3.334	
1.919	1.182	5.215	1.[illegible]	2.542	3.[illegible]	3.665	
1.919	1.[illegible]	4.[illegible]	1.121	2.279	2.642	3.383	4C008
1.919	1.211	4.431	1.[illegible]	2.184	2.682	3.227	
1.919	1.[illegible]	4.[illegible]	1.[illegible]	2.145	2.582	3.248	
1.919	1.184	5.259	1.[illegible]	2.445	2.905	3.477	
1.919	1.[illegible]	5.[illegible]	1.184	2.[illegible]	2.[illegible]	3.351	

1.919	1.141	5.317	1.276	2.534	3.[illegible]	3.639	
1.919	1.129	5.354	1.228	2.526	2.994	3.631	
1.919	1.126	5.[illegible]	1.[illegible]	2.[illegible]	2.926	3.535	
1.919	1.[illegible]	4.[illegible]	1.145	2.249	2.665	3.313	
1.919	1.144	5.545	1.316	2.445	2.932	3.633	
1.919	1.[illegible]	5.[illegible]	1.343	2.562	2.931	3.634	4A012
1.919	1.113	5.399	1.227	2.496	2.732	3.517	
1.919	1.143	5.[illegible]	1.[illegible]	2.444	2.966	3.493	
1.919	1.[illegible]	4.455	1.125	2.[illegible]	2.399	3.182	
1.919	1.[illegible]	5.[illegible]	1.[illegible]	2.[illegible]	2.696	3.502	

GROUP 5

TIME	Zn	Fe	Sn	Mg	Cu	Al	
1.935	1.381	0.778	0.367	2.899	1.364	2.397	
1.935	1.383	0.747	0.373	2.936	1.410	2.447	
1.935	1.397	0.911	0.393	3.094	1.356	2.539	
1.935	1.374	0.576	0.371	2.866	1.376	2.393	
1.935	1.383	0.816	0.366	2.780	1.399	2.428	5A019
1.935	1.386	0.782	0.380	2.685	1.417	2.330	
1.934	1.382	0.948	0.385	3.160	1.378	2.509	
1.935	1.368	0.789	0.374	2.926	1.382	2.439	
1.935	1.356	0.685	0.355	2.782	1.296	2.368	
1.935	1.347	0.686	0.374	2.856	1.348	2.413	
1.935	1.360	1.774	0.382	2.988	1.408	2.485	
1.934	1.373	1.891	0.386	2.885	1.428	2.494	
1.934	1.392	1.864	0.376	2.928	1.385	2.489	
1.935	1.342	1.857	0.371	2.778	1.321	2.432	
~~1.935~~	1.935	1.324	1.624	2.358	2.618	1.382	2.316
1.935	1.347	1.436	0.358	2.746	1.311	2.348	5C131
1.935	1.331	1.887	0.355	2.628	1.244	2.352	
1.935	1.413	2.015	0.395	2.982	1.343	2.619	
1.935	1.291	1.154	0.343	2.322	1.259	2.263	
1.935	1.275	2.090	0.358	2.644	1.198	2.323	
1.935	1.402	1.892	0.385	3.018	1.477	2.527	
1.935	1.337	2.074	0.345	2.614	1.277	2.267	
1.935	1.346	1.869	0.383	2.936	1.339	2.587	
1.935	1.319	2.046	0.364	2.859	1.248	2.489	
1.935	1.399	2.037	0.378	2.933	1.399	2.495	6B102
1.935	1.380	1.877	0.371	2.964	1.324	2.513	
1.935	1.376	1.759	0.356	2.827	1.311	2.418	
1.935	1.275	2.743	0.351	2.612	1.230	2.292	
1.935	1.279	2.924	0.348	2.720	1.138	2.341	
1.935	1.316	2.958	0.371	2.870	1.294	2.472	
1.935	1.378	1.684	0.377	2.982	1.369	2.508	
1.935	1.272	2.042	0.356	2.576	1.261	2.331	
1.935	1.386	1.739	0.366	2.882	1.281	2.485	
1.935	1.336	1.741	0.365	2.768	1.265	2.357	
1.935	1.406	1.681	0.389	2.972	1.448	2.539	5C072
1.935	1.445	1.673	0.396	3.064	1.452	2.549	
1.935	1.474	1.771	0.386	3.030	1.398	2.566	
1.935	1.316	1.641	0.374	2.776	1.318	2.418	
1.935	1.397	1.384	0.398	2.768	1.399	2.467	
1.935	1.264	1.588	0.363	2.540	1.267	2.341	
1.935	1.348	2.748	0.356	2.759	1.291	2.275	
1.935	1.429	2.985	0.389	2.910	1.458	2.529	
1.935	1.296	2.833	0.360	2.815	1.318	2.376	
1.935	1.388	1.813	0.376	2.988	1.312	2.510	
1.935	1.365	2.694	0.343	2.594	1.197	2.224	5A019
1.935	1.367	1.721	0.365	2.811	1.331	2.424	
1.935	1.367	2.768	0.358	2.726	1.278	2.339	
1.935	1.413	1.196	0.388	2.918	1.338	2.557	
1.935	1.283	2.699	0.345	2.487	1.257	2.252	
1.934	1.331	2.759	0.354	2.719	1.281	2.345	

GROUP 5

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.935	1.390	1.109	0.380	2.883	1.423	2.484	
1.935	1.362	1.441	0.373	2.784	1.448	2.483	
1.935	1.413	1.322	0.390	3.146	1.388	2.582	
1.935	1.351	1.281	0.364	2.931	1.253	2.444	
1.935	1.390	1.334	0.375	2.946	1.338	2.477	
1.935	1.313	1.214	0.346	2.633	1.302	2.253	SB035
1.935	1.361	1.240	0.365	2.851	1.309	2.393	
1.935	1.376	1.359	0.370	2.855	1.334	2.506	
1.935	1.406	1.321	0.381	2.803	1.303	2.582	
1.935	1.381	1.316	0.374	2.894	1.338	2.492	
1.935	1.374	1.363	0.372	2.935	1.368	2.374	
1.935	1.392	1.482	0.380	2.982	1.394	2.505	
1.935	1.329	1.382	0.360	2.872	1.288	2.355	
1.935	1.329	1.402	0.356	2.726	1.252	2.369	
1.935	1.193	0.868	0.321	2.425	1.146	2.073	
1.935	1.332	1.140	0.356	2.541	1.363	2.342	SC040
1.935	1.378	1.448	0.368	2.754	1.278	2.498	
1.935	1.258	1.080	0.343	2.512	1.094	2.166	
1.935	1.305	1.235	0.343	2.504	1.252	2.262	
1.935	1.363	1.340	0.376	2.722	1.345	2.399	
1.935	1.396	1.584	0.378	2.961	1.407	2.505	
1.935	1.294	1.366	0.351	2.700	1.328	2.244	
1.935	1.336	1.412	0.362	2.922	1.290	2.355	
1.935	1.255	1.309	0.338	2.616	1.148	2.188	
1.935	1.333	1.315	0.359	2.768	1.334	2.348	
1.935	1.289	1.232	0.337	2.476	1.177	2.166	SC026
1.935	1.361	1.582	0.370	2.865	1.324	2.464	
1.935	1.277	1.149	0.344	2.303	1.302	2.158	
1.935	1.275	1.269	0.354	2.521	1.266	2.306	
1.935	1.361	1.488	0.375	2.648	1.313	2.447	
1.935	1.166	0.421	0.293	2.402	0.989	1.862	
1.935	1.241	0.523	0.321	2.462	1.172	2.142	
1.935	1.378	0.862	0.375	2.993	1.354	2.464	
1.935	1.362	1.147	0.370	2.982	1.345	2.492	
1.935	1.315	0.726	0.344	2.641	1.193	2.292	
1.935	1.302	0.630	0.349	2.464	1.312	2.263	SA019
1.935	1.281	0.596	0.319	2.409	1.289	2.261	
1.935	1.341	0.852	0.356	2.752	1.218	2.348	
1.935	1.307	0.541	0.341	2.440	1.224	2.212	
1.935	1.302	0.927	0.375	2.879	1.286	2.534	
1.935	1.395	1.623	0.375	3.043	1.399	2.499	
1.935	1.382	1.136	0.375	3.168	1.356	2.450	
1.935	1.353	1.150	0.364	2.896	1.246	2.399	
1.935	1.398	1.645	0.378	2.926	1.388	2.519	
1.935	1.252	0.785	0.344	2.624	1.208	2.181	
1.935	1.376	0.750	0.372	2.498	1.239	2.223	SB018
1.935	1.402	1.296	0.376	2.939	1.314	2.546	
1.935	1.248	0.687	0.342	2.497	1.229	2.156	
1.935	1.214	0.801	0.340	2.495	1.168	2.253	
1.935	1.248	0.709	0.338	2.484	1.245	2.161	

Group 6

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.935	1.386	1.414	0.368	2.782	1.313	2.342	
1.935	1.381	1.095	0.344	2.672	1.212	2.234	
1.935	1.399	1.564	0.382	2.884	1.361	2.614	
1.935	1.401	1.686	0.387	2.999	1.366	2.629	
1.935	1.317	1.151	0.357	2.662	1.286	2.332	
1.935	1.332	1.271	0.361	2.633	1.296	2.378	6C112
1.935	1.399	1.511	0.378	2.922	1.295	2.508	
1.935	1.354	1.309	0.372	2.776	1.301	2.419	
1.935	1.365	1.366	0.368	2.720	1.341	2.387	
1.935	1.348	1.617	0.377	2.801	1.361	2.481	
1.935	1.378	1.193	0.380	2.979	1.400	2.441	
1.935	1.312	0.958	0.362	2.763	1.323	2.354	
1.935	1.332	1.068	0.362	2.856	1.227	2.361	
1.935	1.422	1.308	0.382	3.075	1.332	2.549	
1.935	1.342	1.246	0.364	2.873	1.278	2.409	
1.935	1.332	1.178	0.361	2.834	1.264	2.398	6B077
1.935	1.345	1.278	0.389	2.845	1.296	2.493	
1.935	1.341	0.960	0.361	2.724	1.309	2.285	
1.935	1.350	0.915	0.362	2.672	1.271	2.398	
1.935	1.327	1.000	0.378	3.008	1.304	2.552	
1.935	1.446	0.961	0.394	3.161	1.408	2.623	
1.935	1.383	1.036	0.378	3.041	1.343	2.553	
1.935	1.373	0.753	0.375	2.901	1.346	2.458	
1.935	1.375	0.872	0.378	3.007	1.333	2.546	
1.935	1.312	0.597	0.343	2.594	1.160	2.247	
1.935	1.341	0.639	0.360	2.758	1.238	2.392	6A019
1.935	1.284	0.541	0.341	2.489	1.232	2.180	
1.935	1.350	0.828	0.366	2.823	1.300	2.518	
1.935	1.348	0.673	0.353	2.598	1.219	2.319	
1.935	1.372	0.905	0.365	2.716	1.274	2.434	
1.935	1.331	0.566	0.366	2.904	1.322	2.374	
1.935	1.314	0.433	0.362	2.785	1.339	2.303	
1.935	1.336	0.415	0.358	2.807	1.284	2.360	
1.935	1.395	0.551	0.386	3.034	1.315	2.536	
1.935	1.347	0.365	0.359	2.711	1.326	2.332	
1.935	1.315	0.504	0.347	2.720	1.152	2.344	6A086
1.935	1.340	0.480	0.361	2.867	1.242	2.416	
1.935	1.362	0.534	0.364	2.820	1.243	2.413	
1.935	1.326	0.344	0.348	2.681	1.139	2.269	
1.935	1.291	0.397	0.342	2.625	1.155	2.249	
1.935	1.398	1.845	0.389	2.949	1.414	2.492	
1.935	1.343	1.036	0.378	2.772	1.393	2.375	
1.935	1.409	1.702	0.389	2.993	1.388	2.528	
1.935	1.384	1.809	0.383	2.894	1.399	2.527	
1.935	1.313	1.390	0.356	2.663	1.271	2.381	
1.935	1.479	1.136	0.359	2.558	1.292	2.195	5B146
1.935	1.387	1.395	0.383	2.777	1.303	2.383	
1.935	1.369	1.502	0.368	2.868	1.248	2.452	
1.935	1.267	1.391	0.363	2.811	1.211	2.442	
1.935	1.404	2.202	2.393	3.040	1.312	2.654	

Group 5

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.935	1.382	2.563	0.375	2.963	1.369	2.475	
1.935	1.383	2.678	0.368	2.934	1.362	2.493	
1.935	1.412	2.652	0.397	3.185	1.378	2.698	
1.935	1.363	0.545	0.354	2.782	1.374	2.365	
1.935	1.368	1.496	0.371	2.954	1.399	2.447	
1.935	1.393	0.595	0.338	2.482	1.181	2.206	SA181
1.935	1.349	0.551	0.367	2.758	1.356	2.378	
1.935	1.414	0.720	2.399	3.029	1.356	2.635	
1.935	1.335	0.436	0.346	2.524	1.276	2.311	
1.935	1.370	1.537	0.366	2.846	1.347	2.492	
1.935	1.320	0.590	0.357	2.712	1.292	2.295	
1.935	1.344	2.907	0.359	2.894	1.321	2.391	
1.935	1.406	1.283	0.392	3.189	1.376	2.616	
1.935	1.393	1.816	0.378	2.985	1.365	2.500	
1.935	1.398	2.961	0.378	2.925	1.383	2.488	
1.935	1.325	2.568	0.350	2.702	1.263	2.354	SA019
1.935	1.350	0.920	0.374	2.872	1.350	2.485	
1.935	1.373	1.080	0.376	2.950	1.383	2.549	
1.935	1.292	0.512	0.338	2.490	1.244	2.178	
1.935	1.396	1.963	0.382	3.068	1.368	2.604	
1.935	1.400	1.752	0.389	3.129	1.399	2.501	
1.935	1.437	0.723	0.394	3.253	1.365	2.637	
1.935	1.399	0.650	0.385	3.050	1.386	2.601	
1.935	1.375	0.522	0.368	2.889	1.316	2.393	
1.935	1.338	0.508	0.358	2.623	1.306	2.376	
1.935	1.398	0.566	0.388	2.857	1.363	2.472	SA101
1.935	1.392	0.397	0.348	2.518	1.227	2.198	
1.935	1.383	0.721	0.368	2.943	1.361	2.513	
1.935	1.343	0.494	0.361	2.732	1.258	2.316	
1.935	1.385	0.484	0.355	2.738	1.288	2.396	
1.935	1.473	0.448	0.399	3.168	1.394	2.751	
1.935	1.417	0.358	0.389	3.012	1.353	2.535	
1.935	1.381	0.432	0.364	2.832	1.287	2.423	
1.935	1.421	0.388	0.355	2.905	1.319	2.381	
1.935	1.346	0.218	0.355	2.813	1.220	2.378	
1.935	1.282	0.130	0.343	2.675	1.168	2.244	SA043
1.935	1.358	0.214	0.357	2.712	1.258	2.386	
1.935	1.383	0.411	0.384	2.961	1.314	2.566	
1.935	1.367	0.342	0.367	2.841	1.272	2.446	
1.935	1.359	0.364	0.364	2.830	1.260	2.479	
1.935	1.383	0.761	0.354	2.876	1.281	2.362	
1.935	1.315	0.547	0.355	2.813	1.272	2.359	
1.935	1.378	0.714	0.368	2.909	1.324	2.478	
1.935	1.398	0.838	0.378	3.063	1.388	2.568	
1.935	1.365	0.840	0.364	2.964	1.394	2.472	
1.935	1.344	0.758	0.378	2.956	1.389	2.518	SA019
1.935	1.337	0.693	0.351	2.731	1.265	2.399	
1.935	1.335	0.890	0.368	2.840	1.245	2.482	
1.935	1.355	0.558	0.385	2.985	1.334	2.492	
1.935	1.381	0.947	0.392	2.759	1.234	2.394	

GROUP 6

TIME	Zn	Fe	Sm	Mg	Cu	Al	
1.919	1.774	1.[illegible]	[illegible].935	1.875	4.535	2.437	
1.919	1.[illegible]87	1.244	[illegible].851	1.[illegible]16	4.[illegible]69	2.[illegible]06	
1.919	1.593	1.[illegible]05	[illegible].[illegible]87	1.484	3.[illegible]59	2.127	
1.919	1.[illegible]17	[illegible].941	[illegible].734	1.46[illegible]	3.495	2.[illegible]94	
1.919	1.[illegible]73	1.[illegible]57	[illegible].[illegible]15	1.514	3.423	2.193	
1.919	1.[illegible]98	1.[illegible]14	[illegible].[illegible]88	1.[illegible]87	3.[illegible]94	1.[illegible]87	6A014
1.919	1.[illegible]65	[illegible].945	[illegible].756	1.461	3.[illegible]18	2.[illegible]31	
1.919	1.[illegible]88	[illegible].[illegible]8[illegible]	[illegible].734	1.411	3.274	2.[illegible]54	
1.919	1.[illegible]69[illegible]	1.[illegible]56	[illegible].[illegible]85	1.[illegible]18	3.[illegible]67	2.141	
1.919	1.[illegible]95	[illegible].[illegible]75	[illegible].[illegible]82	1.454	3.413	2.[illegible]27	
1.919	1.[illegible]38	[illegible].[illegible]59	[illegible].[illegible]04	1.[illegible]66	3.134	2.[illegible]23	
1.919	1.[illegible]84	[illegible].[illegible]15	[illegible].957	1.391	3.[illegible]38	2.[illegible]26	
1.919	1.493	[illegible].[illegible]40	[illegible].[illegible]75[illegible]	1.[illegible]32	3.[illegible]60[illegible]	1.[illegible]99[illegible]	
1.919	1.[illegible]78	[illegible].[illegible]37[illegible]	[illegible].[illegible]87[illegible]	1.414	3.511	2.[illegible]44	
1.919	1.531	[illegible].[illegible]2[illegible]	[illegible].784	1.[illegible]28[illegible]	3.[illegible]3[illegible]	1.915	
1.919	1.[illegible]22[illegible]	[illegible].[illegible]44	[illegible].[illegible]54	1.[illegible]54	3.[illegible]62	2.[illegible]84	6C073
1.919	1.[illegible]56	[illegible].[illegible]42	[illegible].[illegible]75[illegible]	1.[illegible]32[illegible]	3.[illegible]15	2.[illegible]42	
1.919	1.[illegible]56	[illegible].[illegible]7[illegible]	[illegible].[illegible]38[illegible]	1.[illegible]3[illegible]	3.[illegible]33	2.[illegible]7[illegible]	
1.919	1.545	[illegible].[illegible]18	[illegible].[illegible]25[illegible]	1.[illegible][illegible]9	3.[illegible]85	1.956	
1.919	1.[illegible]53	[illegible].[illegible]75	[illegible].777	1.[illegible]21	3.[illegible]67	2.[illegible]24	
1.919	1.[illegible]4[illegible]	[illegible].[illegible]11[illegible]	[illegible].[illegible]8[illegible]	1.[illegible]89	3.[illegible]04	1.[illegible]87	
1.919	1.[illegible]55	[illegible].[illegible]34	[illegible].[illegible]76	1.[illegible]65	3.[illegible]49	2.[illegible]28	
1.919	1.[illegible]73	[illegible].[illegible]15[illegible]	[illegible].[illegible]21	1.[illegible]37	3.[illegible]93	2.[illegible]17[illegible]	
1.919	1.[illegible]75	[illegible].[illegible]51	[illegible].[illegible]14	1.[illegible]87	4.[illegible]15[illegible]	2.[illegible]17	
1.919	1.[illegible]4[illegible]	[illegible].[illegible]3[illegible]	[illegible].[illegible]52	1.[illegible]89	3.[illegible]54	2.[illegible]15[illegible]	
1.919	1.[illegible]3[illegible]	[illegible].[illegible]3[illegible]	[illegible].[illegible]46[illegible]	1.[illegible]7[illegible]	4.[illegible]35[illegible]	2.[illegible]24	6D066
1.919	1.[illegible]3[illegible]	[illegible].[illegible]7[illegible]	[illegible].[illegible]74	1.[illegible]69	3.[illegible]64	2.[illegible]91	
1.919	1.[illegible]69	[illegible].[illegible]22	[illegible].[illegible]74[illegible]	1.[illegible]81	3.[illegible]15[illegible]	2.[illegible]12	
1.919	1.[illegible]35	[illegible].[illegible]3[illegible]	[illegible].[illegible]81[illegible]	[illegible].[illegible]43	4.774	2.478	
1.919	1.[illegible]52	[illegible].[illegible]2[illegible]	[illegible].[illegible]8[illegible]	1.551	3.[illegible]78	2.[illegible]31	
1.919	1.[illegible]93	[illegible].[illegible]13	[illegible].[illegible]19	1.441	3.597	2.[illegible]47	
1.919	1.[illegible]43	[illegible].[illegible]43	[illegible].[illegible]63	1.389	3.723	2.[illegible]27	
1.919	1.[illegible]3[illegible]	[illegible].[illegible]48	[illegible].[illegible]84	1.593	3.746	2.359	
1.919	1.[illegible]64	[illegible].[illegible]4[illegible]	[illegible].741	1.[illegible]51	3.[illegible]86	2.[illegible]14	
1.919	1.[illegible]5[illegible]	[illegible].[illegible]72	[illegible].[illegible]31	1.[illegible]5[illegible]	3.751	2.117	
1.919	1.[illegible]7[illegible]	[illegible].791	[illegible].[illegible]78[illegible]	1.[illegible]7[illegible]	[illegible].971	2.[illegible]22	6C093
1.919	1.[illegible]5[illegible]	[illegible].[illegible]1	[illegible].[illegible]5[illegible]	1.[illegible]64	3.[illegible]6[illegible]	2.[illegible]66	
1.919	1.[illegible]3[illegible]	[illegible].[illegible]5[illegible]	[illegible].[illegible]4[illegible]	1.[illegible]5[illegible]	3.[illegible]7[illegible]	2.[illegible]61	
1.919	1.[illegible]4[illegible]	[illegible].[illegible]1[illegible]	[illegible].[illegible]27	1.[illegible]35	3.[illegible]35	2.[illegible]7[illegible]	
1.919	1.[illegible]7[illegible]	[illegible].[illegible]12[illegible]	[illegible].[illegible]7[illegible]	1.[illegible]39	3.[illegible]7[illegible]	2.[illegible]6[illegible]	

GROUP 6

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.919	1.615	1.[illegible]	0.744	1.417	3.226	0.176	
1.919	1.480	0.541	0.716	1.194	2.854	1.771	
1.919	1.696	1.441	2.848	1.519	3.311	0.874	
1.919	1.605	1.[illegible]	0.753	1.555	3.654	1.287	
1.919	1.691	1.217	0.869	1.433	3.312	0.188	
1.919	1.661	1.811	0.559	1.409	3.186	0.186	6A014
1.919	1.648	1.748	0.786	1.492	3.423	0.181	
1.919	1.[illegible]	1.[illegible]	0.[illegible]	1.589	3.164	0.382	
1.919	1.698	1.386	0.873	1.446	3.[illegible]	0.814	
1.919	1.566	1.[illegible]	0.747	1.319	3.218	0.128	
1.919	1.613	1.[illegible]	0.686	1.525	4.343	0.381	
1.919	1.676	0.732	0.824	1.726	3.753	0.256	
1.919	1.719	0.[illegible]	0.844	1.616	3.743	0.333	
1.919	1.[illegible]	0.545	0.881	1.594	3.768	0.146	
1.919	1.644	0.385	0.816	1.491	3.576	0.[illegible]	
1.919	1.746	0.930	0.877	1.784	4.391	0.254	6C172
1.919	1.695	0.525	0.834	1.656	3.996	0.313	
1.919	1.674	0.458	0.828	1.477	3.338	0.248	
1.919	1.654	0.533	0.816	1.409	3.519	0.188	
1.919	1.789	0.543	0.832	1.749	4.184	0.371	
1.919	1.838	0.934	0.939	0.[illegible]	5.189	0.792	
1.919	1.769	0.608	0.886	1.966	4.746	0.514	
1.919	1.746	0.413	0.954	1.736	4.195	0.451	
1.919	1.671	0.198	0.845	1.543	3.696	0.178	
1.919	1.751	0.401	0.[illegible]	1.846	4.[illegible]	0.387	
1.919	1.781	0.591	0.915	1.625	4.311	0.487	6D089
1.919	1.662	0.212	0.814	1.578	3.637	0.175	
1.919	1.711	0.268	0.851	1.583	3.643	0.[illegible]	
1.919	1.869	0.968	0.961	2.349	5.269	0.735	
1.919	1.753	0.328	0.849	1.[illegible]	3.892	0.321	
1.919	1.849	1.525	0.913	0.[illegible]	4.653	0.549	
1.919	1.[illegible]	1.948	0.947	0.[illegible]	5.111	0.741	
1.919	1.654	1.244	0.768	1.[illegible]	4.[illegible]	0.172	
1.919	1.[illegible]	0.754	0.764	1.562	3.316	0.[illegible]	
1.919	1.[illegible]	0.[illegible]	0.[illegible]	1.[illegible]	4.[illegible]	1.[illegible]	
1.919	1.[illegible]	0.[illegible]	0.[illegible]	1.[illegible]	3.[illegible]	1.[illegible]	6A091
1.919	1.641	1.[illegible]	0.788	1.551	3.[illegible]	0.231	
1.919	1.[illegible]	1.369	0.[illegible]	1.[illegible]	4.164	0.[illegible]	
1.919	1.[illegible]	1.[illegible]	0.[illegible]	1.[illegible]	4.[illegible]	0.514	
1.919	1.[illegible]	1.[illegible]	0.[illegible]	1.[illegible]	4.[illegible]	0.458	

GROUP 6

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.919	1.595	1.369	2.918	1.294	3.146	2.132	
1.919	1.656	1.339	2.966	1.595	3.488	2.331	
1.919	1.519	2.957	2.749	1.389	2.903	2.011	
1.919	1.593	1.173	2.763	1.492	3.221	2.193	
1.919	1.572	1.176	2.819	1.376	2.671	2.127	
1.919	1.366	2.586	2.694	1.113	2.521	1.795	6A014
1.919	1.481	2.565	2.771	1.298	3.018	1.676	
1.919	1.595	2.994	2.715	1.365	2.953	1.949	
1.919	1.654	1.458	2.687	1.338	3.124	2.093	
1.919	1.586	1.856	2.773	1.368	3.062	2.185	
1.919	1.526	3.455	2.752	1.294	3.037	1.858	
1.919	1.787	2.899	2.897	1.502	3.558	2.385	
1.919	1.514	2.551	2.739	1.371	3.240	2.234	
1.919	1.491	2.486	2.715	1.328	2.895	1.909	
1.919	1.628	2.680	2.772	1.419	3.161	2.162	
1.919	1.638	2.703	2.731	1.399	3.334	2.180	6B052
1.919	1.625	2.807	2.761	1.386	3.335	2.233	
1.919	1.610	2.749	2.931	1.359	3.184	2.195	
1.919	1.596	3.562	2.775	1.328	3.276	1.971	
1.919	1.749	2.975	2.858	1.657	3.459	2.440	
1.919	1.678	3.883	2.649	1.433	3.741	2.167	
1.919	1.440	2.416	2.696	1.276	3.641	1.759	
1.919	1.684	2.822	2.766	1.483	3.614	2.282	
1.919	1.782	1.457	2.869	1.565	3.935	2.308	
1.919	1.548	2.693	2.862	1.408	3.397	2.293	
1.919	1.443	2.221	2.694	1.385	2.887	1.698	6A075
1.919	1.653	2.932	2.771	1.525	3.286	2.135	
1.919	1.548	2.438	2.718	1.416	3.245	2.280	
1.919	1.644	2.923	2.815	1.493	3.439	2.486	
1.919	1.544	2.539	2.736	1.492	3.238	2.285	
1.919	1.756	1.313	2.816	1.772	4.237	2.373	
1.919	1.752	1.354	2.854	1.776	4.345	2.343	
1.919	1.674	1.487	2.748	1.634	3.610	2.254	
1.919	1.664	1.259	2.613	1.573	3.586	2.231	
1.919	1.541	2.994	2.719	1.429	3.884	1.975	
1.919	1.731	1.670	2.948	1.736	4.536	2.489	6A072
1.919	1.741	1.175	2.838	1.741	3.787	2.343	
1.919	1.564	2.749	2.767	1.591	3.745	2.216	
1.919	1.715	2.813	2.715	2.156	4.478	2.572	
1.919	1.751	1.555	2.734	1.735	3.484	2.499	

GROUP 6

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.919	1.749	1.536	0.961	1.486	3.289	2.496	
1.919	1.665	1.189	0.918	1.422	3.485	2.389	
1.919	1.614	2.981	0.852	1.324	3.482	2.182	
1.919	1.644	1.219	0.971	1.398	3.290	2.279	
1.919	1.658	1.478	0.961	1.383	3.028	2.309	
1.919	1.681	1.981	0.895	1.306	3.298	2.259	6A014
1.919	1.647	1.354	0.947	1.493	3.251	2.272	
1.919	1.694	1.246	0.839	1.357	3.271	2.221	
1.919	1.639	1.204	0.982	1.398	3.971	2.294	
1.919	1.672	1.336	0.936	1.397	3.139	2.266	
1.919	1.742	1.146	0.911	2.319	5.171	2.565	
1.919	1.678	0.289	0.854	1.613	3.851	2.218	
1.919	1.734	0.626	0.853	1.936	4.153	2.463	
1.919	1.587	0.234	0.743	1.678	3.744	2.127	
1.919	1.694	0.862	0.846	2.271	4.734	2.499	
1.919	1.717	0.464	2.879	1.654	3.891	2.383	6D010
1.919	1.622	0.138	0.817	1.353	3.311	2.134	
1.919	1.717	0.368	0.860	1.521	3.621	2.270	
1.919	1.745	0.615	0.884	1.831	4.107	2.415	
1.919	1.668	0.212	0.762	1.578	3.524	2.198	
1.919	1.673	0.620	0.867	1.465	3.682	2.288	
1.919	1.554	0.346	0.784	1.371	3.163	2.088	
1.919	1.598	0.399	0.769	1.449	3.418	2.081	
1.919	1.666	0.559	0.858	1.446	3.491	2.268	
1.919	1.649	0.476	0.858	1.449	3.536	2.169	
1.919	1.695	0.669	0.975	1.474	3.969	2.296	6C132
1.919	1.653	0.472	0.830	1.478	3.458	2.258	
1.919	1.655	0.515	0.752	1.399	3.161	2.046	
1.919	1.752	1.154	0.932	1.786	3.947	2.466	
1.919	1.693	0.554	0.854	1.626	3.434	2.321	
1.919	1.494	0.211	0.766	1.256	3.648	2.278	
1.919	1.688	0.399	0.851	1.393	3.392	2.247	
1.919	1.509	0.262	0.784	1.285	3.218	2.116	
1.919	1.476	0.259	0.686	1.197	2.970	1.764	
1.919	1.677	0.455	0.974	1.393	3.198	2.218	
1.919	1.644	0.471	0.932	1.381	3.159	2.196	6C044
1.919	1.649	0.348	0.869	1.355	3.193	2.148	
1.919	1.569	0.376	0.827	1.238	2.928	2.139	
1.919	1.557	0.148	0.963	1.197	2.996	2.038	
1.919	1.615	0.324	0.846	1.334	3.238	2.211	

GROUP 6

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.919	1.795	1.564	2.238	1.447	3.413	2.414	
1.919	1.554	2.977	2.887	1.293	3.176	2.168	
1.919	1.564	2.972	2.784	1.255	3.244	2.186	
1.919	1.615	1.736	2.632	1.371	3.137	2.180	
1.919	1.674	1.851	2.511	1.298	3.219	2.171	
1.919	1.582	2.974	2.736	1.268	3.124	2.182	6A014
1.919	1.621	1.156	2.823	1.342	3.176	2.128	
1.919	1.513	2.934	2.764	1.298	3.164	2.113	
1.919	1.569	1.973	2.231	1.246	2.964	2.014	
1.919	1.463	2.918	2.736	1.211	2.634	1.894	
1.919	1.487	2.583	2.738	1.234	3.177	1.342	
1.919	1.574	2.626	2.766	1.364	3.211	2.266	
1.919	1.673	2.729	2.836	1.475	3.324	2.127	
1.919	1.595	2.718	2.758	1.402	3.232	2.235	
1.919	1.667	2.918	2.858	1.441	3.315	2.247	
1.919	1.638	1.693	2.822	1.399	3.256	2.175	6B096
1.919	1.431	2.468	2.761	1.178	2.881	1.970	
1.919	1.648	2.913	2.818	1.426	3.236	2.156	
1.919	1.598	2.415	2.748	1.366	2.652	1.916	
1.919	1.694	2.977	2.828	1.496	3.123	2.236	
1.919	1.731	2.976	2.859	1.671	4.962	2.283	
1.919	1.665	1.782	2.854	1.519	3.523	2.189	
1.919	1.749	2.824	2.929	1.664	3.784	2.334	
1.919	1.592	2.548	2.758	1.582	3.186	2.101	
1.919	1.831	1.818	2.928	1.714	3.865	2.411	
1.919	1.765	2.854	2.898	1.693	3.382	2.466	6B168
1.919	1.674	2.745	2.782	1.586	3.285	2.298	
1.919	1.745	2.694	2.862	1.578	3.428	2.236	
1.919	1.785	2.859	2.866	1.663	3.659	2.353	
1.919	1.512	2.624	2.749	1.607	3.166	2.185	
1.919	1.759	2.658	2.765	1.634	4.242	2.278	
1.919	1.731	2.496	2.844	1.547	3.284	2.244	
1.919	1.606	2.532	2.972	1.395	3.535	2.256	
1.919	1.776	2.565	2.901	1.714	3.784	2.378	
1.919	1.646	2.194	2.815	1.299	3.547	1.924	
1.919	1.631	2.545	2.776	1.564	3.850	2.274	6C022
1.919	1.554	2.619	2.778	1.545	3.942	1.994	
1.919	1.617	2.535	2.751	1.454	3.737	2.158	
1.919	1.773	2.747	2.815	1.511	3.971	2.226	
1.919	1.725	2.541	2.854	1.537	3.473	2.326	

GROUP 6

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.919	1.625	1.178	[illegible]	1.3[illegible]	3.142	[illegible]	
1.919	1.625	1.167	[illegible]	1.344	[illegible]	[illegible]	
1.919	1.586	1.133	[illegible]	1.368	3.397	[illegible]	
1.919	1.595	[illegible]	[illegible]	1.364	[illegible]	2.136	
1.919	1.698	1.231	[illegible]	1.386	3.165	[illegible]	
1.919	1.586	[illegible]	[illegible]	1.441	[illegible]	[illegible]	6A014
1.919	1.634	1.195	[illegible]	1.358	[illegible]	[illegible]	
1.919	1.568	[illegible]	[illegible]	1.337	[illegible]	1.966	
1.919	1.635	[illegible]	[illegible]	1.334	[illegible]	[illegible]	
1.919	1.687	1.499	[illegible]	1.399	3.355	2.375	
1.919	1.602	[illegible]	[illegible]	1.362	3.309	1.845	
1.919	1.729	1.671	[illegible]	1.455	3.366	2.155	
1.919	1.617	[illegible]	[illegible]	1.447	3.663	2.156	
1.919	1.594	1.291	[illegible]	1.464	3.574	2.167	
1.919	1.571	[illegible]	[illegible]	1.351	[illegible]	[illegible]	
1.919	1.785	1.374	[illegible]	1.618	[illegible]	[illegible]	6A048
1.919	1.561	[illegible]	[illegible]	1.434	3.332	[illegible]	
1.919	1.546	[illegible]	[illegible]	1.441	[illegible]	[illegible]	
1.919	1.645	[illegible]	[illegible]	1.541	3.144	[illegible]	
1.919	1.628	[illegible]	[illegible]	1.464	3.875	[illegible]	
1.919	1.785	1.365	[illegible]	[illegible]	4.678	2.474	
1.919	1.658	1.414	[illegible]	[illegible]	4.651	2.616	
1.919	1.711	[illegible]	[illegible]	1.594	3.562	[illegible]	
1.919	1.627	[illegible]	[illegible]	1.494	3.435	2.097	
1.919	1.695	[illegible]	[illegible]	1.675	3.744	[illegible]	
1.919	1.751	[illegible]	[illegible]	1.668	3.550	[illegible]	6A162
1.919	1.599	[illegible]	[illegible]	1.554	3.553	2.161	
1.919	1.722	[illegible]	[illegible]	1.555	3.319	[illegible]	
1.919	1.693	[illegible]	[illegible]	1.694	3.727	[illegible]	
1.919	1.611	[illegible]	[illegible]	1.616	3.439	2.175	
1.919	1.545	1.548	[illegible]	1.576	[illegible]	[illegible]	
1.919	1.542	1.385	[illegible]	1.384	[illegible]	[illegible]	
1.919	1.571	1.316	[illegible]	[illegible]	[illegible]	[illegible]	
1.919	1.471	[illegible]	[illegible]	1.191	[illegible]	1.757	
1.919	1.512	1.176	[illegible]	[illegible]	[illegible]	[illegible]	
1.919	1.447	[illegible]	[illegible]	1.139	[illegible]	[illegible]	6B130
1.919	1.463	1.151	[illegible]	1.213	[illegible]	[illegible]	
1.919	1.482	1.299	[illegible]	1.349	[illegible]	1.736	
1.919	1.554	[illegible]	[illegible]	1.117	[illegible]	1.693	
1.919	1.564	1.276	[illegible]	1.314	[illegible]	[illegible]	

GROUP 6

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.919	1.679	1.893	2.916	1.483	3.111	2.309	
1.919	1.594	2.077	2.899	1.251	2.730	2.965	
1.919	1.498	2.952	2.766	1.272	2.926	2.909	
1.919	1.503	1.941	2.842	1.283	3.125	2.177	
1.919	1.481	2.954	2.777	1.227	2.483	2.918	
1.919	1.551	2.842	2.827	1.231	2.786	2.268	6A014
1.919	1.456	2.941	2.752	1.238	2.689	2.928	
1.919	1.414	1.814	2.704	1.174	2.371	1.946	
1.919	1.605	1.136	2.955	1.317	2.897	2.221	
1.919	1.573	1.885	2.928	1.323	2.940	2.178	
1.919	1.604	2.498	2.882	1.399	3.352	2.173	
1.919	1.682	2.445	2.831	1.339	3.122	2.136	
1.919	1.551	2.457	2.749	1.388	3.416	2.928	
1.919	1.578	2.386	2.787	1.311	3.225	2.946	
1.919	1.752	2.781	2.933	1.562	3.278	2.411	
1.919	1.638	2.578	2.855	1.326	3.122	2.164	6A129
1.919	1.670	2.578	2.872	1.352	3.314	2.280	
1.919	1.642	2.572	2.856	1.353	3.287	2.143	
1.919	1.752	2.786	2.896	1.564	3.209	2.424	
1.919	1.742	2.596	2.858	1.459	3.282	2.244	
1.919	1.938	2.882	2.951	2.219	4.948	2.693	
1.919	1.813	1.465	2.913	2.224	5.898	2.525	
1.919	1.757	2.981	2.855	1.576	3.914	2.426	
1.919	1.615	2.652	2.765	1.468	3.160	2.118	
1.919	1.682	1.461	2.838	2.468	4.371	2.283	
1.919	1.748	1.737	2.957	2.184	4.833	2.571	6B011
1.919	1.543	2.689	2.736	1.373	3.165	1.947	
1.919	1.429	2.481	2.663	1.367	2.621	1.826	
1.919	1.564	2.856	2.753	1.572	3.469	1.856	
1.919	1.565	2.786	2.715	1.649	3.494	2.285	
1.919	1.54.	2.67	2.751	1.464	2.856	2.136	
1.919	1.474	2.661	2.764	1.196	2.576	1.914	
1.919	1.458	2.677	2.744	1.1.	2.629	1.948	
1.919	1.455	2.778	2.745	1.232	2.621	1.934	
1.919	1.451	2.694	2.759	1.16.	2.535	1.887	
1.919	1.546	2.591	2.819	1.440	2.919	2.981	6A014
1.919	1.571	1.511	2.731	1.311	2.638	2.224	
1.919	1.613	1.164	2.817	1.492	3.295	2.842	
1.919	1.532	2.918	2.767	1.434	2.845	2.758	
1.919	1.565	1.152	2.844	1.310	2.992	2.186	

Group 7

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.946	1.475	2.[illegible]	1.453	5.[illegible]	0.425	3.240	
1.946	1.443	1.644	1.358	5.296	0.445	2.985	
1.947	1.392	1.555	1.197	4.768	0.405	2.761	
1.946	1.435	1.972	1.393	5.326	0.402	3.248	
1.946	1.331	1.597	1.250	4.739	0.378	2.666	
1.946	1.402	1.662	1.336	4.856	0.390	2.813	7A028
1.946	1.358	1.705	1.259	4.902	0.376	2.842	
1.946	1.436	2.249	1.422	5.329	0.410	3.233	
1.942	1.399	1.[illegible]	1.361	4.894	0.399	3.012	
1.941	1.465	2.[illegible]	1.414	5.397	0.407	3.181	
1.946	1.879	1.112	1.249	4.231	0.399	2.657	
1.946	1.386	1.399	1.358	4.976	0.422	2.980	
1.946	1.399	1.802	1.308	5.256	0.407	2.966	
1.946	1.401	1.916	1.369	5.136	0.419	3.085	
1.946	1.315	1.399	1.314	4.383	0.378	2.752	
1.946	1.375	1.454	1.378	4.765	0.379	2.876	7A069
1.946	1.245	1.173	1.113	4.381	0.369	2.610	
1.946	1.385	1.435	1.312	4.716	0.362	2.678	
1.946	1.394	1.[illegible]	1.338	4.919	0.385	2.971	
1.941	1.383	1.[illegible]	1.255	5.754	0.403	2.870	
1.946	1.456	2.418	1.425	5.483	0.446	3.257	
1.946	1.424	2.[illegible]	1.358	5.394	0.399	3.118	
1.946	1.478	2.399	1.396	5.452	0.419	3.232	
1.946	1.491	2.358	1.332	5.294	0.393	3.018	
1.946	1.354	1.776	1.[illegible]	4.[illegible]	0.386	2.751	
1.946	1.[illegible]	1.758	1.363	4.986	0.399	2.915	7B146
1.946	1.463	2.196	1.362	4.[illegible]	0.393	2.962	
1.946	1.406	2.[illegible]	1.385	5.[illegible]	0.411	3.076	
1.946	1.179	1.[illegible]	1.121	3.653	0.333	2.267	
1.946	1.363	2.328	1.281	4.859	0.386	2.874	
1.946	1.278	1.655	1.194	4.644	0.395	2.684	
1.946	1.312	1.399	1.208	4.612	0.374	2.629	
1.946	1.465	2.413	1.399	5.399	0.393	3.099	
1.946	1.342	1.829	1.282	4.637	0.398	2.783	
1.946	1.294	1.367	1.272	4.125	0.374	2.660	
1.946	1.381	1.[illegible]	1.347	4.673	0.381	2.687	7B030
1.946	1.381	2.140	1.326	4.[illegible]	0.374	2.982	
1.946	1.454	2.542	1.431	5.471	0.391	3.169	
1.946	1.358	1.652	1.316	4.413	0.356	2.772	
1.946	1.339	1.771	1.269	4.[illegible]	0.374	2.660	
1.946	1.369	1.[illegible]	1.387	[illegible]	0.399	3.057	
1.946	1.341	1.[illegible]	1.342	4.[illegible]	0.361	2.936	
1.946	1.367	1.[illegible]	1.[illegible]	4.[illegible]	0.387	2.[illegible]	
1.946	1.399	1.[illegible]	1.358	4.[illegible]	0.374	2.886	
1.946	1.396	1.[illegible]	1.395	4.[illegible]	0.[illegible]	3.033	
1.946	1.463	1.[illegible]	1.174	4.[illegible]	0.[illegible]	2.518	7A028
1.946	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.374	2.[illegible]	
1.946	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.951	
1.946	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	
1.946	1.[illegible]	1.[illegible]	1.[illegible]	4.433	0.374	2.812	

Group 7

PL

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.946	1.399	1.786	1.384	5.158	0.417	2.993	
1.947	1.349	1.412	1.263	4.630	0.398	2.732	
1.946	1.449	2.015	1.426	5.354	0.414	3.167	
1.947	1.417	1.674	1.334	5.015	0.414	3.136	
1.947	1.339	1.392	1.261	4.656	0.398	2.868	
1.946	1.359	1.376	1.369	4.620	0.375	2.758	7A110
1.946	1.319	1.289	1.222	4.650	0.380	2.756	
1.948	1.444	2.159	1.434	5.354	0.402	3.275	
1.946	1.438	1.875	1.424	5.210	0.376	2.963	
1.947	1.399	1.848	1.384	4.933	0.382	2.931	
1.946	1.422	1.541	1.392	5.092	0.405	3.032	
1.947	1.426	1.658	1.393	4.915	0.390	3.001	
1.948	1.375	1.474	1.362	4.825	0.395	2.916	
1.946	1.434	1.948	1.441	5.147	0.399	3.156	
1.948	1.344	1.354	1.264	4.494	0.353	2.738	
1.947	1.347	1.327	1.362	4.427	0.378	2.921	7A028
1.948	1.365	1.435	1.396	4.752	0.382	2.936	
1.948	1.374	1.451	1.395	4.645	0.370	2.872	
1.948	1.357	1.351	1.337	4.424	0.304	2.764	
1.947	1.447	2.075	1.458	5.170	0.386	3.129	
1.946	1.362	1.372	1.282	4.868	0.374	2.812	
1.948	1.378	1.365	1.342	4.883	0.366	2.883	
1.948	1.361	1.144	1.167	4.446	0.363	2.627	
1.947	1.448	1.959	1.441	5.223	0.398	3.155	
1.946	1.299	1.393	1.241	4.268	0.341	2.682	
1.946	1.369	1.489	1.313	4.964	0.378	2.846	7A053
1.948	1.227	1.046	1.111	4.173	0.338	2.444	
1.947	1.309	1.277	1.287	4.857	0.389	3.038	
1.949	1.276	1.265	1.258	4.836	0.321	2.695	
1.948	1.351	1.578	1.270	4.756	0.366	2.847	
1.948	1.367	1.382	1.309	4.763	0.377	2.735	
1.949	1.342	1.271	1.291	5.214	0.385	2.956	
1.947	1.248	1.154	1.130	4.152	0.334	2.529	
1.946	1.321	1.491	1.232	4.719	0.392	2.754	
1.948	1.378	1.436	1.374	4.525	0.343	2.536	
1.948	1.316	1.293	1.215	4.448	0.334	2.671	7A028
1.947	1.316	1.575	1.274	4.599	0.364	2.746	
1.946	1.349	1.614	1.348	4.847	0.391	2.762	
1.946	1.242	1.281	1.167	4.457	0.332	2.557	
1.948	1.357	1.529	1.262	4.696	0.340	2.772	
1.947	1.342	1.118	1.268	4.853	0.372	2.736	
1.948	1.314	1.159	1.213	4.874	0.354	2.721	
1.947	1.353	1.369	1.259	4.836	0.375	2.793	
1.947	1.371	1.471	1.317	4.934	0.405	2.995	
1.948	1.375	1.413	1.294	4.985	0.365	2.772	
1.947	1.337	1.351	1.272	4.872	0.371	2.916	7D023
1.947	1.305	1.133	1.256	4.764	0.374	2.945	
1.947	1.321	1.495	1.215	4.677	0.343	2.613	
1.948	1.337	1.151	1.296	4.771	0.340	2.877	
1.946	1.294	1.995	1.247	4.695	0.372	2.714	

GROUP 7

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.946	1.385	1.058	1.381	4.364	0.483	2.859	
1.946	1.241	0.925	1.174	4.211	0.385	2.824	
1.946	1.397	2.095	1.287	5.158	0.399	2.936	
1.946	1.388	1.967	1.298	5.047	0.416	2.939	
1.946	1.291	1.173	1.196	4.478	0.372	2.668	
1.947	1.445	2.094	1.424	5.245	0.433	3.196	7B 116
1.947	1.317	1.748	1.218	4.667	0.360	2.718	
1.948	1.476	2.694	1.447	5.524	0.403	3.140	
1.947	1.347	1.745	1.247	4.632	0.388	2.764	
1.948	1.340	1.728	1.258	4.477	0.384	2.812	
1.946	1.354	1.856	1.249	4.935	0.394	2.744	
1.946	1.238	0.768	1.121	4.175	0.373	2.418	
1.947	1.378	1.895	1.292	4.869	0.399	2.865	
1.948	1.336	1.287	1.260	4.638	0.384	2.768	
1.946	1.342	1.118	1.307	4.411	0.366	2.908	
1.946	1.292	0.965	1.194	4.273	0.366	2.564	7D 061
1.946	1.416	1.634	1.346	5.153	0.397	3.057	
1.947	1.411	1.594	1.337	5.153	0.391	3.076	
1.948	1.278	0.878	1.248	3.921	0.357	2.566	
1.947	1.376	1.239	1.282	4.775	0.378	2.840	
1.942	1.436	1.736	1.376	5.467	0.396	2.951	
1.947	1.411	1.491	1.357	5.281	0.406	3.017	
1.948	1.385	1.745	1.312	4.993	0.393	2.927	
1.947	1.293	1.421	1.193	4.548	0.367	2.718	
1.947	1.311	1.251	1.243	4.333	0.357	2.716	
1.947	1.337	1.313	1.264	4.576	0.358	2.784	7A 028
1.947	1.339	1.436	1.287	4.647	0.398	2.869	
1.947	1.361	1.758	1.316	4.955	0.379	2.955	
1.946	1.381	1.169	1.272	4.298	0.381	2.716	
1.948	1.306	1.613	1.381	4.696	0.372	2.847	
1.947	1.424	1.814	1.346	5.121	0.424	3.048	
1.948	1.388	1.486	1.328	5.258	0.394	2.952	
1.948	1.472	1.958	1.442	5.475	0.424	3.248	
1.948	1.406	2.006	1.384	5.488	0.398	2.916	
1.948	1.354	1.378	1.331	4.913	0.374	2.849	
1.947	1.284	1.246	1.211	4.719	0.341	2.585	7D 031
1.947	1.396	1.578	1.376	4.917	0.398	2.925	
1.947	1.434	1.561	1.391	4.671	0.343	2.754	
1.947	1.338	1.326	1.318	4.532	0.364	2.557	
1.948	1.352	1.651	1.372	4.695	0.364	2.892	
1.946	1.366	1.676	1.311	4.960	0.399	2.893	
1.947	1.271	1.176	1.171	4.581	0.363	2.496	
1.948	1.351	1.537	1.301	5.072	0.399	2.936	
1.948	1.399	1.789	1.343	5.284	0.394	2.963	
1.947	1.317	1.213	1.218	4.811	0.358	2.652	
1.946	1.379	1.182	1.249	4.145	0.405	2.795	7C 127
1.946	1.486	2.217	1.416	5.172	0.399	3.156	
1.948	1.317	1.744	1.343	4.930	0.384	2.963	
1.946	1.359	1.449	1.301	4.954	0.381	2.952	
1.947	1.378	1.596	1.314	4.811	0.378	2.835	

GROUP 7

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.94.	1.474	1.855	1.415	4.7[illegible]	[illegible]	3.117	
1.94.	1.488	1.856	1.387	4.993	0.476	2.967	
1.94.	1.370	1.557	1.363	4.983	0.399	2.935	
1.94.	1.398	1.773	1.313	5.273	0.396	2.934	
1.94.	1.385	1.398	1.347	4.875	0.355	2.870	
1.94.	1.399	1.664	1.386	4.876	0.392	2.981	7C003
1.941	1.346	1.483	1.276	4.548	0.382	2.758	
1.94.	1.448	2.270	1.486	5.280	0.399	3.211	
1.94.	1.340	1.558	1.284	4.785	0.332	2.644	
1.94.	1.399	1.550	1.350	4.614	0.399	2.927	
1.94.	1.392	1.475	1.385	5.051	0.382	2.884	
1.94.	1.419	1.509	1.364	4.956	0.390	2.984	
1.94.	1.355	1.566	1.318	4.938	0.396	2.942	
1.94.	1.414	1.677	1.382	5.215	0.399	3.036	
1.941	1.434	1.769	1.406	5.143	0.361	3.052	7A028
1.941	1.424	1.625	1.383	5.641	0.389	3.027	
1.94.	1.399	1.753	1.385	4.906	0.354	2.957	
1.941	1.431	1.983	1.396	5.103	0.399	3.136	
1.94.	1.338	1.413	1.274	4.658	0.367	2.653	
1.94.	1.382	1.411	1.365	4.624	0.363	2.741	
1.94.	1.467	1.756	1.355	5.085	0.409	2.944	
1.94.	1.342	1.643	1.359	5.054	0.357	2.891	
1.94.	1.285	1.654	1.172	4.689	0.356	2.669	
1.941	1.302	1.828	1.219	4.526	0.344	2.638	
1.941	1.314	1.634	1.214	4.387	0.364	2.614	7B054
1.941	1.284	1.136	1.168	4.278	0.353	2.578	
1.94.	1.399	1.878	1.341	4.955	0.376	2.896	
1.941	1.285	1.592	1.178	4.845	0.346	2.581	
1.94.	1.320	1.697	1.237	4.598	0.319	2.651	
1.941	1.311	1.772	1.211	4.554	0.356	2.756	
1.941	1.275	1.694	1.148	4.843	0.378	2.639	
1.941	1.341	1.313	1.240	4.494	0.388	2.771	
1.941	1.283	1.484	1.184	4.578	0.345	2.675	
1.941	1.319	1.402	1.235	4.681	0.305	2.774	
1.94.	1.461	1.778	1.349	5.118	0.391	3.[illegible]	
1.94.	1.437	1.594	1.153	4.821	0.363	2.576	7C082
1.941	1.291	1.159	1.146	4.184	0.346	2.562	
1.941	1.654	1.517	1.169	4.299	0.352	2.596	
1.94.	1.491	1.836	1.243	4.176	0.356	2.529	
1.941	1.368	1.656	1.269	4.796	0.382	2.794	
1.94.	1.318	1.767	1.241	4.958	0.372	2.822	
1.941	1.417	1.554	1.348	4.981	0.419	3.011	
1.94.	1.347	1.618	1.245	4.776	0.376	2.891	
1.941	1.325	0.754	1.246	4.956	0.371	1.737	
1.941	1.374	1.631	1.217	4.795	0.349	2.566	
1.941	1.171	1.447	1.204	4.186	0.293	2.446	7B075
1.94.	1.398	2.591	1.341	4.944	0.389	2.955	
1.941	1.37.	2.111	1.292	4.792	0.372	2.891	
1.941	1.454	1.618	1.142	4.736	0.345	2.405	
1.941	1.171	1.758	1.[illegible]4	4.817	0.367	2.419	

Group 7

Time	Zn	Fe	Sn	Mg	Cu	Al	
1.941	1.378	1.476	1.471	5.[illegible]	0.368	2.918	
1.941	1.359	1.364	1.372	4.452	0.383	2.[illegible]	
1.941	1.[illegible]	1.714	1.[illegible]	4.[illegible]	0.376	2.815	
1.941	1.358	1.411	1.[illegible]	4.575	0.387	2.778	
1.941	1.344	1.[illegible]	1.385	4.413	0.368	2.684	
1.941	1.331	1.141	1.354	4.144	0.371	2.595	7A028
1.941	1.336	1.[illegible]	1.264	4.778	0.346	2.856	
1.941	1.[illegible]	1.[illegible]	1.171	4.927	0.356	2.565	
1.941	1.338	1.[illegible]	1.[illegible]	4.[illegible]	0.343	2.578	
1.941	1.385	1.[illegible]	1.186	4.319	0.345	2.683	
1.941	1.[illegible]	1.[illegible]	1.196	4.[illegible]	0.[illegible]	2.591	
1.941	1.371	1.[illegible]	1.314	4.[illegible]	0.399	2.837	
1.941	1.[illegible]	1.314	1.137	4.[illegible]	0.350	2.643	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	
1.941	1.376	1.314	1.318	4.585	0.396	2.826	7A 133
1.941	1.383	1.419	1.334	4.734	0.388	2.978	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.515	0.[illegible]	2.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	
1.941	1.399	1.[illegible]	1.396	4.[illegible]	0.393	2.951	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	5.[illegible]	0.[illegible]	2.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.376	2.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	7C098
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	3.[illegible]	0.[illegible]	2.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	5.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	5.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	5.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	5.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	3.[illegible]	7C052
1.941	1.[illegible]	1.[illegible]	1.[illegible]	5.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	5.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	5.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	5.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	5.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	7A028
1.941	1.[illegible]	1.[illegible]	1.[illegible]	5.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	5.[illegible]	0.[illegible]	3.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	
1.941	1.[illegible]	1.[illegible]	1.[illegible]	4.[illegible]	0.[illegible]	2.[illegible]	

POOR
QUALITY
ORIGINAL